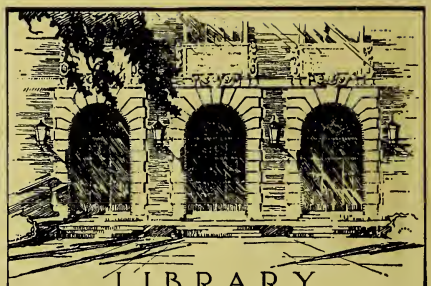

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OF

CITY OFFICERS

OF THE

CITY OF NEWARK, N. J.

FOR THE YEAR

1913

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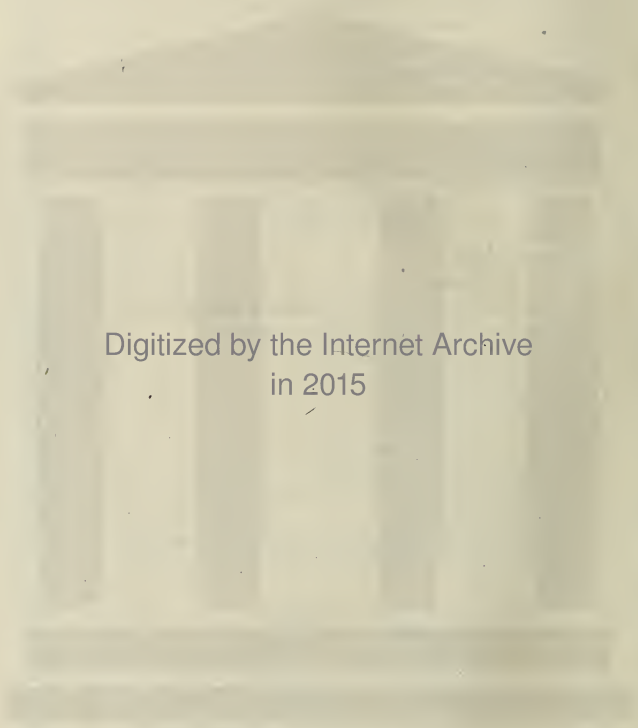
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Newark City Government

FOR THE YEAR 1913

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1913

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JAMES R. NUGENT.....*City Counsel*
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MORRIS R. SHERRERD.....*Chief Engineer and City Surveyor*
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RICHARD ROONEY.....*Clerk of First Criminal Court*
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1913

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Regular Meetings First Friday Evening of Each Month.

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1913

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1913

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The Eighth Annual Message

OF

JACOB HAUSSLING

MAYOR

PRESENTED TO THE COMMON COUNCIL
OF THE CITY OF NEWARK,
NEW JERSEY

January First, Nineteen Hundred and Fourteen

Hence arises the necessity for what is known as city planning; hence also the necessity for stricter building regulations and drastic health codes; hence also the necessity for large police and fire forces; hence also the necessity for agencies to deal scientifically with social problems, to relieve want, to protect the young, to provide recreation and to raise up and stimulate those who have been beaten down in a fierce economic struggle.

Cities can no longer maintain prosperity by simply making great annexations; by over-leaping large territories and covering them with bricks and mortar. The errors of the past must be resolutely sought out and corrected. It is a problem akin to that of intensive cultivation in agriculture. But, though the cost be great, the benefits are immeasurable. We have already set out on this new work in Newark, and there is a great necessity that we shall not be diverted from or halted in it. He is the best public servant whose horizon is broad and whose sense of perspective and proportion is accurate.

FINANCES OF THE CITY.

The gross funded indebtedness of the city at this time of writing is $30,802,200, compared to $29,385,200 a year ago. During the year bonds amounting to $1,550,000 were issued and sold, and bonds of $133,000 matured and were paid out of the sinking fund. The sinking fund accumulations amount to $8,899,728, so that the net funded debt is $21,902,472. The ratio of the gross debt to the taxable ratables is 7,809 per cent., and of the net debt to the ratables, 5.55 per cent. Included in the figures given for the gross funded indebtedness are water bonds to the amount of $13,377,000, which are paid, interest and sinking fund charges, out of the revenues of the Water Department, and therefore constitute no burden upon the general

tax payer. The ratio of that portion of the gross debt which is a charge upon the general tax payer, interest and sinking fund alike, is about 4.419 per cent., to the total ratables.

During the year which lies before us it will be necessary to issue bonds in large amounts in payment for projects to which the city is already committed, such as the Passaic Valley Sewer, the alms house, the public schools and the like. A careful scrutiny of all appropriations is therefore particularly necessary at this time.

There have been some complaints during the year just ended about high taxes. A ready answer could be given to such complaints by citing the failure of the city to have granted its just claim, as I consider it, to assess the so-called contingent reserve fund of the Prudential Insurance Company. But it would be well for our tax payers to consider that of the revenues gathered by the city, by no means all are devoted to city purposes. The county taxes, over which the city has no control, for instance, have shown a great increase in recent years. In 1907, the city paid the county $1,554,365.54. For 1913, the city has paid, or will pay, to the county $2,534,369.30. This is an increase of but a few thousand less than $1,000,000 in seven years.

I must not be understood as criticising the county government in this. The increase may have been entirely justified, but it is an increase over which the city has had no control and for which the city is in no way responsible.

A CENTRAL PURCHASING BUREAU.

The thought that there should be a central bureau or department to look after all city purchasing, of whatever description, and to supply all city departments upon requisition has long been in my mind. I have no doubt that such an agency could save many thousands of dollars a year, and that quality would not suffer while low cost was being attained. There is some force in the objection to such a system, based on the assumption that a single official would be in control, but I believe that this would be largely, if not entirely, removed by the placing of the bureau in charge of a board of three members, one to be selected by the Board of Street and Water Commissioners, one to be selected by the Common Council and one to be selected by the Mayor. Thus the principal branches of the city government would be represented, each by a person acquainted with its needs and methods.

Almost every department of the city government, however small, now makes purchases independently, and the city loses the advantage that wholesale dealing would bring to it. There are, moreover, frequent differences with tradesmen in cases where orders have been givn, doubtless in good faith, but without sufficient insistence upon, or understanding of prices. The work that a central purchasing agency could do in the mere matter of standardization and testing would represent an important saving, and if there should be added to its duties the maintenance and repair of vehicles and machines owned by the city, such as automobiles, wagons and the like, an opportunity for another great economy would be presented.

To create the Bureau of Purchases, Supplies and Maintenance, if such should be the title adopted, it would be necessary to appeal to Trenton. The legislative act, I am persuaded, can be so drawn as to permit a great deal of flexibility in the operations of the bureau, so as to provide fully the needs of the several city departments, and at the same time enforce the maximum of economy.

PAVING PROBLEMS.

During the year a controversy in the Board of Street and Water Commissioners revived the question as to the advisability of laying patented pavements in the city.

The law permits such pavements to be laid upon the presentation of an affirmative petition of the owners of more than fifty per cent. of the property fronting on the street to be paved.

I have never favored patented pavements, but I have always felt that when a majority of the property owners, on a street where traffic is local and the question may be described as purely of neighborhood interest, petition for such an improvement, the city should not deny them. This is the position I have assumed whenever this question has come before me.

There is a way, however, of producing competition even where patent pavements are concerned. If the board, when advertising for bids for such pavements, should, at the same time, invite proposals for other suitable but unpatented pavements, the effect would be, I believe, a lower price tendency for the former. Even if this should not result, the property owners would have a chance to change their minds, provided the proceedings should be taken under the Jersey City act, so-called.

Of course, when a main thoroughfare is to be paved, an entirely different question is presented. The property owners in such case, though entitled to be heard, should not be allowed to dictate the laying of a pavement, which would be hurtful to the interests of the whole community.

MEADOWS AND DOCKS.

There is a good prospect that the scheme for reclaiming the meadows and providing, in that region, shipping facilities by rail and water, will take definite form shortly, so that actual work may be speedily begun. As I have urged several times since the inception of the scheme, is is necessary that a definite plan be adopted formally, and had we begun work as soon as possible after the proposition was adopted by the vote of the people, the community would now be reaping a considerable benefit, even granting that some errors in the matters of detail had been made.

The question whether or not the improvement shall provide for the so-called ship canal, of greater or lesser length, is still a matter of controversy. It may be necessary for me to state again that the ship canal met favor chiefly because it was recommended as the quickest and cheapest way of providing the filling material for the area of meadow land to be treated. Such it was announced to be by every expert who was officially connected with the preparation or examination of the plans. These experts also held that the ship canal would also have a valuable commercial use. I have regarded the problem as one of meadow reclamation primarily, leaving the commercial development to be determined later. My mind is open on the subject, however, and if I can be convinced that any other means than the ship canal is better for the general purpose of the scheme, I am perfectly willing to accept it.

STILL NEED FOR SUBWAYS.

After several months of consideration and negotiation, the city and trolley company came together during the year upon a proposition involving some practically new lines, a number of extensions, and a central trolley transfer station. The several franchises involved, will become effective, if approved by the Public Utilities Commission, and the city has the promise that in such an event the trolley company will do the physical work necessary with all expedition.

Extensive as this scheme of improvement is, I can regard it as meeting merely present needs, or the needs of the next few years only. There is no question in my mind that at present not only are thousands of our neighbors in the immediate suburbs discouraged from coming here to shop, but that a great many of our own people visit the business center as rarely as is possible because of the tremendous rush hour congestion on the street car lines. I still feel that a permanent solution of the local transportation problem can only be reached by the building of subways which shall remove trolley cars from the surface of the streets in the business center. I therefore renew the suggestion that the bill to permit the city to construct such works, upon terms which will, at least, pay interest and sinking fund charges, be re-introduced in the Legislature, and strongly pressed for passage. It may not be necessary to use the power conferred by this bill for some years, but it is a power which the city should have at all times.

CITY PLANNING.

Within a short time, I am informed, the City Planning Commission will present reports making suggestions for important changes in the street lay-out, principally in the heart of the city. These suggested changes have been given most careful and deliberate consideration, and they should receive the best attention of the administrative and financial bodies. It will probably be found necessary, however, to secure an amendment to the law limiting the expenditure for such purpose in any one year to $1,000,000. The city has sought to have the law changed so that unexpended balances of one year might be carried over to the next, making it possible, without exceeding an average of $1,000,000 a year, to complete improvements that might involve somewhat greater sums. But the Legislature, in its wisdom, has so far denied this common sense appeal of the city.

INSURANCE FUND EXPANSION.

Recent statutory enactments place municipal corporations in the same category as private employers with respect to liability for damages for injury or death of certain classes of employes. To insure against such risks in liability companies would cost the city very large sums of money yearly, and yet it does not seem proper that no provision in advance should be made in such a matter. It seems to me that

the city could not do better than to add this class of insurance to the scope of the Insurance Fund Commission, which now handles the fire insurance business of the municipality. The Commission, by fixing fair charges for such business, could add largely to its revenues, and at the same time its usefulness as an adjunct in city financing would be measurably extended. I recommend that legislation to this end be sought.

BUREAU OF INFANT HYGIENE.

Instruction in all phases of infant hygiene is now being given under the auspices of the Board of Health at public expense, but by a private organization. The strict legality of this method is open to some question, and, moreover, as was perhaps natural, there have arisen some questions which have caused friction. I feel that this work is so important that it should not be jeopardized or impeded in any way, and I therefore recommend that legislation be secured permitting the creation of a bureau or board of infant hygiene, the members of which shall be appointed by the Mayor and which shall receive a direct appropriation from the city and conduct its operations somewhat along the lines of the Dental Clinic.

Eventually all such functions should be administered by the Health Department, but it seems wiser to me that this work, for a while, at least, should be conducted independently.

ADVERTISING ABUSES.

It is time, in my opinion, that effective reform should be adopted with regard to city advertising. In the year just closed the expense to the city from advertising public measures has been over $45,000, and in one year recently it ran as high as $75,000. Under the law the full text of all ordinances must be given and other notices must be published with superabundant verbiage. It may be doubted that the methods employed carry out the purpose of the law, which is that the people of the city shall be informed as to what measures are pending or are to take effect. The recently adopted building ordinance was advertised in full at an enormous expense, but the complaints as to its provisions and suggestions as to amendment did not come until long after the measure had become legally effective. There was recently brought to my notice a case where a street improvement which actually cost but a little more than $100.00, was charged against the property concerned at almost $400.00, the difference being largely in advertising charges. There is an opportunity here to effect a great saving of public money and at the same time give the public better information about the transactions of the municipal government than is now possible.

FOR AN EMERGENCY FUND.

Occasions have arisen with some frequency in the past when it was desirable to have investigations made from the Executive Department, or secure the services of experts on some pending question of importance. It is possible that the Common Council has now the power to provide funds for such purposes, but in the absence of express stat-

utory authority, I have not thought it advisable to invoke it. I recommend that legislation be sought which would empower the Council to set aside, not to exceed $5,000 in any one year, as an emergency fund, payment from which should be made upon the Mayor's order. If it be deemed advisable, the scope of the fund might be broadened so as to apply, not only to the purposes already mentioned, but to the proper entertainment of conventions and distinguished visitors.

PLAYGROUNDS AND BATHS.

The playground and bath system is deserving of more generous support than it has yet received. Not only should larger sums be appropriated for maintenance, but there should be funished to the Commission money with which lands might be purchased in various sections which are not as yet built up, but which will not be long unsettled. A fund of $50,000 would be none too great for the Commission to expend in this manner. Playgrounds have come to stay, and if to provide them we must not only purchase land which has reached high values because of dense population, but also contains buildings, we will have to pay much more in the near future than a more prudent and far-sighted policy would render necessary.

BUDGET EXHIBIT.

Under the provisions of an act passed by the Legislature last year, municipalities are empowered to provide so-called "Budget Exhibits" and to pay the expenses thereof. I recommend that the city take advantage of this statute

conditions are acute as they affect Newark to-day, and can not exist much longer without working great harm to our city. But it may be, that as the darkest hour is just before dawn, so the present intolerable system may soon be done away with and the early future usher in a period of self-government for the municipalities of New Jersey with consequent moral and material progress and prosperity.

Yours very truly,

JACOB HAUSSLING,
Mayor.

ANNUAL REPORT

OF THE

Auditor of Accounts

CITY OF NEWARK, NEW JERSEY
FOR THE YEAR 1913

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OFFICE OF THE AUDITOR OF ACCOUNTS
CITY HALL

NEWARK, N. J., April 1, 1914.

To the Honorable, the Mayor and Common Council:

Gentlemen:—I have the honor to submit herewith the Annual Report of this office, containing statements of accounts, with supporting exhibits and schedules, showing in detail the financial transactions of the City for the past year. The statements are as follows:

A—General Balance Sheet, December 31, 1913.

B—Financial Statement of Funds, December 31, 1913.

C—Comparative Revenue and Expenditure Account for year 1913.

D—Statement of the 1913 Budget, showing unexpended balances of previous year; appropriations and actual Revenue and Expenditures for the year with unexpended balances at December 31, 1913.

E—Department of Water Balance Sheet.

F—Department of Water Income Account.

The General Balance Sheet shows all assets of the City, permanent and current, and reflects all liabilities, including both bonded and current indebtedness, while the balance or excess of assets over liabilities is shown as accumulated capital of the City.

The Financial Statement of Funds shows the distribution of the Balance Sheet, including Interfund Balances and cash on hand and in Banks for Permanent Improvements, etc.

The Comparative Revenue and Expenditure Account is of special interest and I desire to present the following comments:

This statement shows a credit for the entire 1913 Revenue accruing to the City from the City Tax Levy, Miscellaneous City Receipts, Water Department and Public Markets, while the expenditures include all expenses incurred during the year for general administration and maintenance. In this connection it should be noted that it is impracticable to submit any comparative figures between 1912 and 1913 of the appropriation for the maintenance of the Public School system, owing to the change in the fiscal year, which now ends on June 30. The State Appropriation, therefore overlaps the City contribution from revenue by six months, as the City Budget is for the year ending December 31, 1913.

The operations of the Water Department are included in total only in this statement, these being shown in more detail in statement F.

Particular attention is drawn to the Budget statement D. This shows on the one side under the titles of the various functions of the City government (1), the appropriations according to the City Tax Budget of 1913; (2), the actual expenditures thereunder and (3), the unexpended balances.

This statement also serves as an index to the schedules which show, in extended detail, the amounts and manner in which these appropriations have been expended by the different Departments of the City. These schedules run from No. 1 to 69 inclusive.

These are not only of interest to the public generally but of special interest to officials as a record of how the moneys have been expended and as a guide to future estimates of amounts required for ensuing operations, also as a basis on which subsequent appropriations may be calculated.

While a number of the funds shown in this statement consist of a cash balance on hand, it is to be understood that the amounts expended in the construction for which these funds were originated has been in most cases transferred to the General City Properties Account as work completed.

During the fiscal year of 1913 this department audited about 30,000 bills, claims and pay-rolls, and audited and countersigned 101,526 warrants and checks amounting to $12,244,419.91, of which sum $3,198,826.40 was for general administration, salaries, services and wages, and $2,365,-737.84 for Public School salaries.

Prior to January 1913, the accounts of the Board of Education had not been audited and entered on the records of this office, all income from city, county and other sources being deposited directly with the City Treasurer, the Custodian of School Moneys. This was not in accord with our accounting system and lacked the triangular check applied to all other departments, also the audit and the counter-signature. To correct this the Common Council passed a Resolution to the following effect. That all moneys received by the Board of Education shall be first deposited with the Comptroller, who will report same in due course to the Auditor and, thereafter, forward the moneys to the Custodian, and that all checks issued be counter-signed by the Auditor.

The balance sheets, accounts and exhibits herewith presented have been prepared in accordance with the system introduced by Messrs. Price, Waterhouse and Company, in 1910, and while compared with previous years, a number of changes have been made in the form and arrangement, they are all, I believe, in the line of progress and enhance the interest and public value of this report.

Respectfully,

JAMES A. ROWE,
Auditor of Accounts.

GENERAL BALANCE SHEET

Statement—A

CITY OF

GENERAL

Decer

ASSETS

CITY PROPERTIES—			
Including all Land, Buildings, Waterworks and Fixed Equipment as valued by Authorized City Officials. *Exhibit A*		$65,185,895.27	
EQUIPMENT, FURNITURE, TOOLS, SUPPLIES, ETC., as inventoried. *Exhibit B*		2,296,418.29	
			$67,482,313.
ADVANCE FOR PASSAIC VALLEY SEWER and other Permanent Improvements in Course of Construction. *Exhibit C*			2,295,346.
Total value of Properties and Equipment			$69,777,660.
ASSETS AVAILABLE FOR PERMANENT IMPROVEMENT OR THE REDUCTION OF DEBT—			
Street Improvement Assessments Outstanding. *Exhibit D*		$ 1,532,211.69	
Cost of Street Improvements not yet assessed. *Exhibit E*		900,184.31	
Cash on Hand and in Banks. *Exhibit F*			
Capital Funds	$1,633,140.01		
Custodian of School Money	223,264.65	1,856,404.66	
			4,288,800.
CURRENT ASSETS—			
General City Taxes Outstanding, less Reserve for Uncollected Taxes. *Exhibit G*	$2,484,709.39		
Water Rents Outstanding, less Reserves	144,965.36		
		$ 2,629,674.75	
Cash on Hand and in Banks. *Exhibit F*			
General Fund	$ 70,762.04		
Department of Water	225,724.61		
Custodian of School Money	1,023,822.82	1,320,309.47	
			3,949,984.
DEFERRED CHARGES AGAINST FUTURE REVENUES OR BOND ISSUES—			
City's Share of Street Improvements. *Exhibit H*		$ 245,966.21	
General City Taxes Cancelled by Court Order		1,067,493.61	
Expenditure on Peddie Street Ditch		83,590.80	
Interest on Temporary Loans, Chapter 121, Laws 1912		31,527.78	
Insurance Prepaid		557.04	
			1,429,135.
SINKING FUNDS AND INTEREST at Nov. 30, 1913. *Exhibit I*			8,899,728.
INSURANCE FUND CASH AND INVESTMENTS. *Exhibit J*			174,732.
DEPARTMENT OF WATER DEFICIT			253,345.
			$88,803,387.

K, N. J.

STATEMENT—A

CE SHEET

913

LIABILITIES

NDED INDEBTEDNESS—				
Permanent Bonds. *Exhibit I*.....		$30,802,200.00		
Less Bonds sold but not delivered..		700,000.00		
			$30,102,200.00	
Temporary Loan Bonds. *Exhibit K*....			6,923,000.00	
				$37,025,200.00
NDS HELD IN TRUST. *Exhibit L*.....				11,300.00
RRENT LIABILITIES. *Exhibit M*.....				2,348,285.42
SERVE FOR CITY'S SHARE OF PERMANENT IMPROVEMENTS, ADJUSTMENT OF TAXES, CLAIMS, ETC. *Exhibit N*.....				157,750.31
STODIAN OF SCHOOL MONEY.....				1,247,087.47
CUMULATED CAPITAL—				
SINKING FUND—				
Balance Nov. 30, 1912.....		$ 8,175,144.86		
Additions to Nov. 30, 1913 (net)....		724,583.90		
Total Sinking Fund Reserve....			$ 8,899,728.76	
GENERAL CITY SURPLUS—				
Balance January 1, 1913—				
Capital Surplus.....		$35,821,332.87		
Add:				
Expenditures during year for additional construction.....	$ 3,858,738.09			
Adjustments of valuations of City Property.....	3,553,101.38			
Bonds redeemed during the year....	4,903,000.00			
	$12,314,839.47			
Less:				
Bonds issued during the year.....	9,025,000.00	3,289,839.47		
Total General City Surplus. *Exhibit O*...		$39,111,172.34		
REVENUE SURPLUS—				
Balance Jan. 1, 1913.....	$ 1,008.20			
Surplus for year as per Revenue and Expenditure Statement.....	1,854.61	2,862.81	39,114,035.15	
Total Accumulated Capital, Dec. 31, 1913				48,013,763.91
				$88,803,387.11

STATEMENT OF FUNDS

Statement—B

STATEMENT OF FUNDS

December 31, 1913

	Common City Fund	General Fund	Street Improvements	Docks and Ship Canal	Street Openings Under Chapter 8, Laws 1909	Street Openings Under Chapter 121, Laws 1912	Track Elevation	Additional Hospital Accomodations	Playground Construction	Alms House Construction	Passaic Valley Sewer Construction	Pavings Under Chapter 217, Laws 1895	Ashes and Refuse Station	Site For Fire House Vailsburg	Board of Education	Insurance Fund Commission	Total	DEPARTMENT OF WATER			Grand Total	Balance Sheet Exhibit
																		General Fund	Water Shed Extension	Funds for Construction of New Storage Reservoir		
ASSETS																						
Land, Buildings and Equipment	$47,581,408.69			$195,952.64				$676,305.37	$69,739.28	$270,452.63							$48,793,858.61	$18,688,454.95			$67,482,313.56	A-B
Advance for Passaic Valley Sewer, Improvements in course of construction										9,843.75	$2,285,503.10						2,295,346.85				2,295,346.85	C
Street Improvement Assessments Outstanding			$1,051,887.94		$ 78,595.46							$401,728.29					1,532,211.69				1,532,211.69	D
Cost of Street Improvements not yet assessed			769,887.48									130,296.83					900,184.31				900,184.31	E
Cash on Hand and in Banks, Available for Permanent Improvements, etc				4,047.36	16,521.67	$ 233,226.01	$6,902.78	123,694.63	5,260.72	29,547.37	1,156,351.07	2,451.36	$4,650.00	$2,000.00	$ 223,264.65		1,807,917.62		$45,888.40	$2,598.64	1,856,404.66	F
Uncollected Taxes, less Reserve		$2,484,709.39															2,484,709.39				2,484,709.39	G
Water Rents Outstanding, less Reserve																		144,965.36			144,965.36	F
Cash on Hand and in Banks—General Administration		70,762.04													1,023,822.82		1,094,584.86	225,724.61			1,320,309.47	G
Deferred Charges against Future Revenues and Bond Issues		1,067,493.61	164,150.62		84,882.87	31,527.78						80,523.52					1,428,578.40	557.04			1,429,135.44	H
Sinking Fund Resources	3,347,520.60																3,347,520.60	5,552,208.16			8,899,728.76	I
Insurance Fund Assets																$174,732.28	174,732.28				174,732.28	J
Department of Water Deficit																		283,345.34			283,345.34	
Totals	$50,928,929.29	$3,622,965.04	$1,985,926.04	$200,000.00	$180,000.00	$ 264,753.79	$6,902.78	$800,000.00	$75,000.00	$309,843.75	$3,441,854.17	$615,000.00	$4,650.00	$2,000.00	$1,247,087.47	$174,732.28	$63,859,644.61	$24,895,255.46	$45,888.40	$2,598.64	$88,803,387.11	
Interfund Balances—																						
Advance to Other Funds						766,773.99											766,773.99				766,773.99	
Advance from General Fund to Other Funds		63,225.70			1,276.58												64,502.28				64,502.28	
Grand Totals	$50,928,929.29	$3,686,190.74	$1,985,926.04	$200,000.00	$181,276.58	$1,031,527.78	$6,902.78	$800,000.00	$75,000.00	$309,843.75	$3,441,854.17	$615,000.00	$4,650.00	$2,000.00	$1,247,087.47	$174,732.28	$64,690,920.88	$24,895,255.46	$45,888.40	$2,598.64	$89,634,663.38	
LIABILITIES																						
Bonded Indebtedness	$14,530,200.00			$200,000.00				$800,000.00	$75,000.00		$1,120,000.00						$16,725,200.00	$13,377,000.00			$30,102,200.00	I
Temporary Loan Bonds		$1,143,000.00	$1,385,000.00		$180,000.00	$1,000,000.00				$300,000.00	2,300,000.00	$615,000.00					6,923,000.00				6,923,000.00	K
Funds Held in Trust		11,300.00															11,300.00				11,300.00	L
Current Liabilities—																						
General		657,487.10	44,781.81														702,268.91	146,016.51			848,285.42	M
Taxes Payable to County		1,500,000.00															1,500,000.00				1,500,000.00	M
Reserves		64,921.98	78,465.25		1,276.58												144,663.81	13,086.50			157,750.31	N
Public School Construction															$ 223,264.65		223,264.65				223,264.65	
Public School Maintenance															1,023,822.82		1,023,822.82				1,023,822.82	
Sinking Fund Surplus	3,347,520.60																3,347,520.60	5,552,208.16			8,899,728.76	O
Accumulated Capital	33,051,208.69		16,247.26				$6,902.78						$4,650.00	$2,000.00		$174,732.28	33,255,741.01	5,806,944.29	$45,888.40	$2,598.64	39,111,172.34	O
Revenue Surplus		2,862.81															2,862.81				2,862.81	O
Totals	$50,928,929.29	$3,379,571.89	$1,524,494.32	$200,000.00	$181,276.58	$1,000,000.00	$6,902.78	$800,000.00	$75,000.00	$300,000.00	$3,420,000.00	$615,000.00	$4,650.00	$2,000.00	$1,247,087.47	$174,732.28	$63,859,644.61	$24,895,255.46	$45,888.40	$2,598.64	$88,803,387.11	
Interfund Balances—																						
Owing to Street Opening Funds		305,342.27	461,431.72														766,773.99				766,773.99	
Owing to Other Funds		1,276.58				31,527.78				9,843.75	21,854.17						64,502.28				64,502.28	
Grand Totals	$50,928,929.29	$3,686,190.74	$1,985,926.04	$200,000.00	$181,276.58	$1,031,527.78	$6,902.78	$800,000.00	$75,000.00	$309,843.75	$3,441,854.17	$615,000.00	$4,650.00	$2,000.00	$1,247,087.47	$174,732.28	$64,690,920.88	$24,895,255.46	$45,888.40	$2,598.64	$89,634,663.38	

CITY OF

COMPARATIVE STATEMENT OF

For Year Ending December

EXPENDITURES	1913	1912	Increase Decrease
DEPARTMENTAL EXPENSES—			
General Administration	$ 542,350.54	$ 507,152.36	$ 35,198.18
Protection of Life, Health and Property	2,098,397.93	2,024,747.41	73,650.52
Public Charities and Correction	155,675.23	143,446.08	12,229.15
Public Highways and Sanitation	1,164,141.56	1,235,578.70	71,437.14
Public Recreation	62,002.95	50,384.62	11,618.33
License	43,084.65	40,425.51	2,659.14
District Courts	17,451.05	16,531.91	919.14
	$ 4,083,103.91	$ 4,018,266.59	$ 64,837.32
PUBLIC ENTERPRISES—			
Department of Water	$ 1,191,884.93	$ 1,239,513.32	47,628.39
Public Market	23,298.87	23,758.94	460.07
	$ 1,215,183.80	$ 1,263,272.26	$ 48,088.46
EDUCATION—			
Library, Art, Science and Industrial Museum and Technical School	$ 167,463.48	$ 175,665.77	$ 8,202.29
Public School System	2,709,954.59	2,819,757.58	109,802.99
	$ 2,877,418.07	$ 2,995,423.35	$118,005.28
INTEREST AND SINKING FUND PAYMENTS—			
General Temporary Loan Bonds	$ 241,589.83	$ 207,695.85	$ 33,893.98
Special Temporary Loan Bonds Street Opening, Chapter 8, Laws 1909	17,956.26	2,445.70	15,510.56
Permanent Bonds	641,481.35	579,913.00	61,568.35
Sinking Fund on Permanent Bonds	271,557.73	255,322.00	16,235.73
	$ 1,172,585.17	$ 1,045,376.55	$127,208.62
RESERVE FOR UNCOLLECTED PERSONAL TAXES	$ 20,506.42	$ 20,000.00	506.42
Forward	$ 9,368,797.37	$ 9,342,338.75	$ 26,458.62

NEWARK, N. J. STATEMENT—C

EXPENDITURES AND REVENUES

31, 1912 and December 31, 1913

REVENUES	1913	1912	Increase Decrease
TAXES—			
General Tax Levy	$ 8,051,291.28	$ 7,914,012.31	$137,278.97
DEPARTMENTAL REVENUE—			
General Administration	$ 297,789.16	$ 309,206.58	$ 11,417.42
Protection of Life, Health and Property	48,299.16	43,441.84	4,857.32
Public Charities and Correction	4,175.76	4,502.40	326.64
Public Highways and Sanitation	141,971.80	136,534.48	5,437.32
Public Recreation	3,141.71	1,961.71	1,180.00
License	706,997.91	644,247.24	62,750.67
District Courts	27,416.49	25,396.20	2,020.29
	$ 1,229,791.99	$ 1,165,290.45	$ 64,501.54
PUBLIC ENTERPRISES—			
Department of Water	$ 1,291,066.93	$ 1,222,084.49	$ 68,982.44
Public Market	59,773.89	58,409.48	1,364.41
	$ 1,350,840.82	$ 1,280,493.97	$ 70,346.85
EDUCATION—			
Public Library Miscellaneous Income	$ 17,756.15	$ 17,231.84	$ 524.31
Public School System	2,043,275.20	2,575,750.06	532,474.86
	$ 2,061,031.35	$ 2,592,981.90	$531,950.55
INTEREST RECEIPTS—			
Taxes and Assessments	$ 178,924.90	$ 144,445.71	$ 34,479.19
Bank Deposits	44,810.76	17,325.98	27,484.78
Accrued on Permanent Bonds	7,439.08	7,549.21	110.13
Temporary Loans, Chapter 8, Laws 1909	12,501.58	2,268.74	10,232.84
Accrued on Temporary Loans	854.36	2,127.80	1,273.44
	$ 244,530.68	$ 173,717.44	$ 70,813.24
TRANSFER FROM CAPITAL FUNDS	$ 2,137.37	.....	2,137.37
Forward	$12,939,623.49	$13,126,496.07	$186,872.58

CITY OF

COMPARATIVE STATEMENT OF

For Year Ending Decembe

EXPENDITURES	1913	1912	Increase / Decrease
Brought forward	$ 9,368,797.37	$ 9,342,338.75	$ 26,458.62
PERMANENT IMPROVEMENTS CHARGED AGAINST REVENUE APPROPRIATIONS—			
City's share of Street Improvement Assessments	$ 139,141.69	$ 124,403.13	$ 14,738.56
Street Improvement Charges	39,891.99	37,698.11	2,193.88
Sixth Precinct Station	.....	6,348.71	6,348.71
Fifteenth Ward Engine House	8,290.98	20,197.50	11,906.52
Engine House No. 9	810.06	30,000.00	29,189.94
Truck House No. 10	3,663.00	.....	3,663.00
Academy Street Fire House	7,994.44	.....	7,994.44
Public Bath House	4,269.07	.....	4,269.07
Transferred to Capital Surplus Account Unexpended Balances—			
Ashes and Refuse Station	.....	4,650.00	4,650.00
Site for Fire House, Vailsburg	.....	2,000.00	2,000.00
	$ 204,061.23	$ 225,297.45	$ 21,236.22
AMOUNT OF APPROPRIATION OF 1913 APPLIED TO REDUCTION OF CERTAIN PERSONAL TAX ASSESSMENTS SET ASIDE BY THE COURT	$ 72,270.03	$ 20,111.00	$ 52,159.03
RESERVE FOR ADJUSTMENT OF CURRENT YEAR'S TAXES	64,921.98	42,038.79	22,883.19
APPROPRIATIONS FROM 1913 TAXES PAYABLE TO COUNTY	2,534,369.30	2,546,973.52	$ 12,604.22
Total City Expenditures for Year	$12,244,419.91	$12,176,759.51	$ 67,660.40
RESERVE AVAILABLE FOR MAINTENANCE OF PUBLIC SCHOOL SYSTEM FROM JANUARY 1, TO JUNE 30, 1914	$ 1,023,822.82	$ 1,694,025.28	$670,202.46
DEPARTMENT OF WATER EXCESS REVENUE FOR YEAR	99,182.00	17,428.83	116,610.83
ACCUMULATED INTEREST COLLECTIONS AVAILABLE FOR INTEREST PAYMENTS ON TEMPORARY LOAN BONDS UNDER CHAPTER 8, LAWS 1909	1,276.58	.....	1,276.58
EXCESS REVENUE FOR THE YEAR SUBJECT TO THE REALIZATION OF UNPAID TAXES	1,854.61	1,008.20	846.41
	$13,370,555.92	$13,854,364.16	$483,808.24

NEWARK, N. J. STATEMENT—C

EXPENDITURES AND REVENUES

31, 1912 and December 31, 1913

REVENUES		1913	1912	Increase / Decrease
Brought forward		$12,939,623.49	$13,126,496.07	$186,872.58
STREET IMPROVEMENT EXPENSES CHARGED TO ASSESSMENTS		28,662.22	35,617.41	6,955.19
UNEXPENDED BALANCE OF PUBLIC SCHOOL SYSTEM, JANUARY 1		402,270.21	646,277.73	244,007.52
BALANCE OF REVENUE FOR 1911 BROUGHT FORWARD TO MEET EXPENDITURES IN 1912	$65,459.05			
LESS AMOUNT APPLIED IN ADJUSTMENT OF 1911 TAXES	19,486.10	.....	45,972.95	45,972.95
Total City Revenues for Year		$13,370,555.92	$13,854,364.16	$483,808.24

STATEMENT OF BUDGET AND SPECIAL APPROPRIATIONS, ETC.

Statement—D

STATEMENT OF BUDGET AND SPECIAL APPROPRIATIONS, EXPENDITURES TRANSFERS AND UNEXPENDED BALANCES

For Year Ending December 31, 1913

Schedule No.		Balance Forward from Previous Year	Appropriations Tax Ordinance	Receipts for Year	Transferred from Contingent and Other Accounts: Supplemental Tax Ordinance	Transferred from Contingent and Other Accounts: Sundry Transfers	Totals	Expenditures for Year	Transferred to Other Accounts	Unexpended Balances	Total	Schedule No.
	GENERAL ADMINISTRATION—											
1	Contingent			$ 296,582.25		$ 713,752.79	$ 1,010,335.04		$ 1,010,335.04		$ 1,010,335.04	1
2	City Salaries				$ 210,000.00	797.57	210,797.57	$ 210,797.57			210,797.57	2
3	City Sundries				28,000.00	7,333.90	35,333.90	35,333.90			35,333.90	3
4	Printing and Stationery			1,095.68	22,500.00	8,933.13	32,528.81	32,528.81			32,528.81	4
5	Elections				21,268.18		21,268.18	21,268.18			21,268.18	5
6	City Statistics				4,691.54		4,691.54	4,691.54			4,691.54	6
7	Collecting Taxes		$ 101,000.00		9,000.00	4,684.64	114,684.64	114,684.64			114,684.64	7
8	Keeping in Repair Public Buildings		77,000.00	111.23	8,000.00	11,016.09	96,127.32	96,127.32			96,127.32	8
9	Maintenance Dog Pound		4,500.00				4,500.00	4,291.66	208.34		4,500.00	9
10	Miscellaneous Advertising				20,000.00	2,606.60	22,606.60	22,606.60			22,606.60	10
	Mortin Act Surplus					20.32	20.32	20.32			20.32	
			$ 182,500.00	$ 297,789.16	$ 323,459.72	$ 749,145.04	$ 1,552,893.92	$ 542,350.54	$ 1,010,543.38		$ 1,552,893.92	
	PROTECTION OF LIFE, HEALTH AND PROPERTY—											
11	Police Department		$ 810,000.00	$ 439.89	$ 150,000.00	$ 301.50	$ 960,741.39	$ 960,741.39			$ 960,741.39	11
12	Fire Department		623,200.00	4,738.28	78,500.00	3,543.94	709,982.22	709,982.22			709,982.22	12
13	City Hospital		163,500.00	1,407.97	20,000.00	2,246.95	187,154.92	187,154.92			187,154.92	13
14	Public Health		145,000.00	14,542.82	4,760.08		164,302.90	164,302.90			164,302.90	14
15	Rental of Beds in Hospitals		26,000.00				26,000.00	26,000.00			26,000.00	15
16	Rent of Armories					1,000.00	1,000.00	1,000.00			1,000.00	16
17	Construction and Alteration of Buildings		10,000.00	25,670.20			35,670.20	34,616.84	$ 1,053.36		35,670.20	17
18	Weights and Measures				12,772.99		12,772.99	12,772.99			12,772.99	18
19	Inspecting Meters			1,500.00		326.67	1,826.67	1,826.67			1,826.67	19
			$ 1,777,700.00	$ 48,299.16	$ 266,033.07	$ 7,419.06	$ 2,099,451.29	$ 2,098,397.93	$ 1,053.36		$ 2,099,451.29	
	PUBLIC CHARITIES AND CORRECTION—											
20	Poor and Alms		$ 65,000.00	$ 913.04	$ 5,000.00	$ 9,040.01	$ 79,953.05	$ 79,953.05			$ 79,953.05	20
21	City Home		42,500.00	3,241.97	9,999.83		55,741.80	55,741.80			55,741.80	21
22	Free Dental Clinic		10,000.00				10,000.00	10,000.00			10,000.00	22
23	Public Outing		9,000.00	20.75	959.63		9,980.38	9,980.38			9,980.38	23
			$ 126,500.00	$ 4,175.76	$ 15,959.46	$ 9,040.01	$ 155,675.23	$ 155,675.23			$ 155,675.23	
	PUBLIC HIGHWAYS AND SANITATION—											
24	Regulating, Cleaning and Keeping in Repair Streets and Highways		$ 250,000.00	$ 22,403.35	$ 67,665.94	$ 1,096.89	$ 341,166.18	$ 341,166.18			$ 341,166.18	24
25	Scavenger		161,500.00		30,000.00	52.01	191,552.01	191,552.01			191,552.01	25
26	Public Lighting		200,000.00	16,584.44	50,000.00	9,655.52	276,239.96	276,239.96			276,239.96	26
27	Regulating and Repairing Sewers		47,500.00	19,840.47		278.83	67,619.30	67,619.30			67,619.30	27
28	House Sewer Connections		2,000.00	42,929.79		2,638.81	47,568.60	47,568.60			47,568.60	28
29	Repairs to Asphalt Streets		60,000.00	6,298.45	4,501.22		70,799.67	70,799.67			70,799.67	29
30	Executive Department Board of Street and Water Commissioners		25,000.00	174.85	10,000.00	1,649.12	36,823.97	36,823.97			36,823.97	30
31	Surveyor's Department		10,000.00	16,802.00	10,000.00	4,858.96	41,660.96	41,660.96			41,660.96	31
32	Repairing Sidewalks	$ 1,008.20	2,000.00	3,737.01			6,745.21	5,611.65		$ 1,133.56	6,745.21	32
33	Construction and Repair of Bridges		1,500.00	141.70	500.00	7,050.48	9,192.18	9,192.18			9,192.18	33
34	Maintenance Incline Plane		1,200.00				1,200.00	1,200.00			1,200.00	34
35	City Plan Commission		10,000.00	13.25			10,013.25	8,784.67		1,228.58	10,013.25	35
36	Wharves			1,156.00		879.52	2,035.52	2,035.52			2,035.52	36
37	Shade Tree Commission		44,000.00	11,890.49	7,996.40		63,886.89	63,886.89			63,886.89	37
		$ 1,008.20	$ 814,700.00	$ 141,971.80	$ 189,663.56	$ 28,160.14	$ 1,166,503.70	$ 1,164,141.56		$ 2,362.14	$ 1,166,503.70	
	PUBLIC INDUSTRIES—											
38	Market Revenue and Expense			$ 59,773.89			$ 59,773.89	$ 23,298.87	$ 36,475.02		$ 59,773.89	38
39	Department of Water	$ 113,277.00		$ 1,614,160.41			1,727,437.41	1,514,223.32		213,214.09	1,727,437.41	39
		$ 113,277.00		$ 1,673,934.30			$ 1,787,211.30	$ 1,537,522.19	$ 36,475.02	$ 213,214.09	$ 1,787,211.30	
	PUBLIC RECREATION—											
40	Playground Commission		$ 27,000.00	$ 391.35	$ 5,000.00	$ 2,252.78	$ 34,644.13	$ 34,644.13			$ 34,644.13	40
41	Public Band Concerts		6,000.00		904.45		6,904.45	6,904.45			6,904.45	41
42	Memorial Day Observance		1,780.63	60.81			1,841.44	1,841.44			1,841.44	42
43	Fourth of July Celebration		1,500.00		318.97		1,818.97	1,818.97			1,818.97	43
44	Public Baths		11,000.00	2,689.55	3,000.00	104.41	16,793.96	16,793.96			16,793.96	44
			$ 47,280.63	$ 3,141.71	$ 9,223.42	$ 2,357.19	$ 62,002.95	$ 62,002.95			$ 62,002.95	
46	LICENSE			$ 706,997.91			$ 706,997.91	$ 43,084.65	$ 663,913.26		$ 706,997.91	45
46	DISTRICT COURTS			$ 27,416.49			$ 27,416.49	$ 17,451.05	$ 9,965.44		$ 27,416.49	46
	EDUCATION—											
47	Art, Science and Industrial Museum		$ 15,000.00				$ 15,000.00	$ 15,000.00			$ 15,000.00	47
48	Public Schools (including State Appropriation)	$ 402,270.21	1,288,232.00	$ 2,043,275.20			3,733,777.41	2,709,954.59		$ 1,023,822.82	$ 3,733,777.41	48
49	Technical School		20,000.00				20,000.00	20,000.00			20,000.00	49
50	Free Public Library		108,108.00	17,756.15		7,100.00	132,964.15	132,463.48		500.67	132,964.15	50
		$ 402,270.21	$ 1,431,340.00	$ 2,061,031.35		$ 7,100.00	$ 3,901,741.56	$ 2,877,418.07		$ 1,024,323.49	$ 3,901,741.56	
	INTEREST AND SINKING FUND PAYMENTS—											
51	Sinking Fund and Interest on Permanent Bonds		$ 905,600.00	$ 7,439.08			$ 913,039.08	$ 913,039.08			$ 913,039.08	51
52	Interest on Temporary Loan Bonds, Chapter 8, Laws 1909		6,731.26	12,501.58			19,232.84	17,956.26		$ 1,276.58	19,232.84	62
53	Interest on Temporary Loan Bonds, General			224,590.02		$ 16,999.81	241,589.83	241,589.83			241,589.83	53
			$ 912,331.26	$ 244,530.68		$ 16,999.81	$ 1,173,861.75	$ 1,172,585.17		$ 1,276.58	$ 1,173,861.75	
	RESERVE FOR UNCOLLECTED PERSONAL TAXES		$ 20,506.42				$ 20,506.42	$ 20,506.42			$ 20,506.42	
	CANCELLED PERSONAL TAXES				$ 72,270.03		$ 72,270.03	$ 72,270.03			$ 72,270.03	
	PERMANENT IMPROVEMENTS CHARGED AGAINST REVENUE—											
54	New Sewers		$ 9,733.08				$ 9,733.08	$ 9,733.08			$ 9,733.08	54
55	New Pavings		17,116.11				17,116.11	17,116.11			17,116.11	55
56	New Pavings under Chapter 217, Laws 1895		112,292.50				112,292.50	112,292.50			112,292.50	66
57	Street Improvement Charges			$ 28,662.22		$ 11,229.77	39,891.99	39,891.99			39,891.99	57
69	Fifteenth Ward Engine House					8,290.98	8,290.98	8,290.98			8,290.98	59
60	Truck House Number 10					3,663.00	3,663.00	3,663.00			3,663.00	60
61	Engine House Number 9					810.06	810.06	810.06			810.06	61
62	Engine House Number 1—Academy Street					7,994.44	7,994.44	7,994.44			7,994.44	62
63	Truck House Number 9					2,137.37	2,137.37		$ 2,137.37		2,137.37	63
64	Public Bath Construction					4,269.07	4,269.07	4,269.07			4,269.07	64
			$ 139,141.69	$ 28,662.22		$ 38,394.69	$ 206,198.60	$ 204,061.23	$ 2,137.37		$ 206,198.60	
	Total Appropriations and Expenditure for City Government		$ 5,452,000.00					$ 9,967,467.02				
58	TAXES FOR YEAR PAYABLE TO THE COUNTY	$ 546,973.52	$ 2,534,369.30				$ 3,081,342.82	1,581,342.82		$ 1,500,000.00	$ 3,081,342.82	58
	Total amount of Appropriations during year 1913		$ 7,986,369.30									
	Excess of Assessments of Taxes over Amount Appropriated	$ 42,038.79	$ 64,921.98				$ 106,960.77		$ 42,038.79	$ 64,921.98	$ 106,960.77	
	Total Revenue, Appropriations, Receipts, Transfers, Expenditures and Balances	$ 1,105,567.72	$ 8,051,291.28	$ 5,237,950.54	$ 867,609.26	$ 853,615.94	$ 16,121,034.74	$ 11,548,809.84	$ 1,766,126.62	$ 2,806,098.28	$ 16,121,034.74	

SUMMARY OF BALANCES UNEXPENDED at December 31, 1913

Showing Distribution on Balance Sheet

Reserves, Interest in Street Openings under Chap. 8, Laws 1909	$ 1,276.58
Reserves for Adjustments Current Year's Taxes	64,921.98
General Fund	2,862.81
Department of Water	213,214.09
Board of Eduention	1,023,822.82
Balance of Appropriation, payable to County	1,500,000.00
	$2,806,098.28

CITY OF

BALANCE SHEET—

For Year Ending

ASSETS

CAPITAL ASSETS—			
Cost of Properties including land, buildings, equipment, etc., less depreciation, at Dec. 31, 1913		$18,266,746.52	
Additions during the year, less depreciation for year		315,654.23	
			$18,582,400.75
Equipment, material and supplies			106,054.20
CURRENT ASSETS—			
Accounts Receivable—			
Metered rates uncollected	$ 96,718.67		
Unmetered rates uncollected	29,666.06		
Tapping Mains uncollected	17,570.55		
Building Permits uncollected	2,862.66		
Miscellaneous	604.75		
Service accounts in hands of Comptroller for collection	16,023.53		
	$163,446.22		
Less Reserve for Uncollected Accounts	18,480.86		
		144,965.36	
Cash in bank and on hand	225,099.61		
Petty Cash on hand	625.00		
		225,724.61	
			370,689.97
SPECIAL FUNDS—			
Watershed Extension Cash		45,888.40	
Construction of Storage Reservoir Cash		2,598.64	
			48,487.04
Deferred charges to Operations			557.04
Sinking Fund, Nov. 30, 1913			5,552,208.16
DEFICIT ON OPERATIONS—			
Assets, Jan. 1, 1913		374,031.34	
Add—			
Refund to customers on unmetered accounts	76.26		
Damage suit, re Weidman Silk Dyeing Co., settled during the year and pertaining to the period prior to Jan. 1, 1913	10,144.47		
Adjustment of Equipment Valuations	1,008.85		
		11,229.58	
		$ 385,260.92	
Deduct refund from services		2,733.58	
		$ 382,527.34	
Deduct Earnings from Operations during year as per attached exhibit		99,182.00	
			283,345.34
			$24,943,742.51

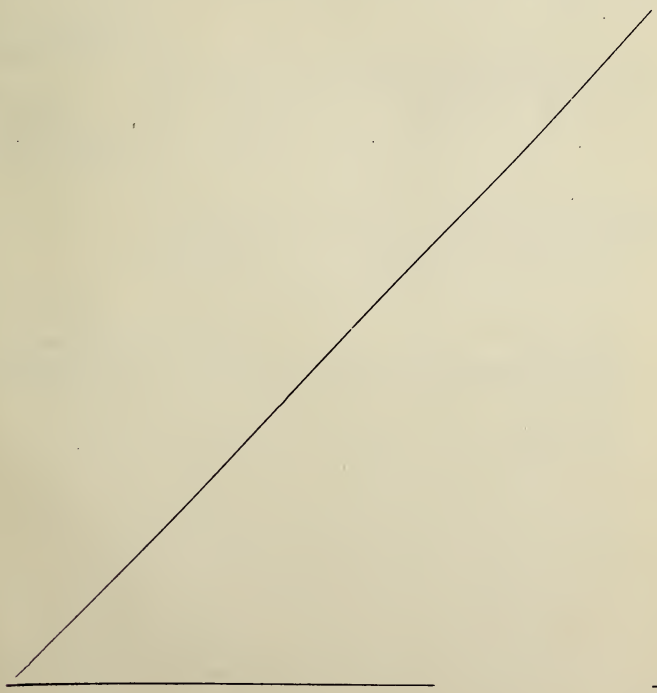
NEWARK, N. J. STATEMENT—E

DEPARTMENT OF WATER

December 31, 1913

LIABILITIES

CAPITAL LIABILITIES—		
Bonded Indebtedness		$13,377,000.00
CURRENT LIABILITIES—		
Sundry Creditors, &c.	$ 13,755.57	
Unpaid and accrued wages	2,927.61	
Interest accrued on Bonded Debt	129,333.33	
		146,016.51
RESERVE—		
Judgments, etc.		13,086.50
Sinking Fund Reserve—Nov. 30, 1913		5,552,208.16
CORPORATE SURPLUS—		
Arising from revaluations of Properties at Dec. 31, 1910..		5,855,431.33
		$24,943,742.50



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STATEMENT—F

DEPARTMENT OF WATER.

Statement of Earnings and Expenditures for the year Ending Dec. 31, 1913.

Net Sales of Water		$1,281,139.18
Miscellaneous Operating Income		710.75
Total Operating Expense Accounts		$1,281,849.93
Deduct—Operating Expense Accounts		409,211.40
		$ 872,638.53
Add—Miscellaneous Rents, Interest and Non-operating Revenues		9,217.00
		$ 881,855.53
Deduct—		
Interest on Funded Debt	$521,684.16	
Sinking Fund Payments	260,989.37	
		782,673.53
Net earnings for the year		$ 99,182.00

BALANCE SHEET—EXHIBIT A

City Properties

	Remunerative and Realizable	Unremunerative but Realizable	Unremunerative and Unrealizable	Parks	Total
Water System, *Exhibit A-1*	$18,529,478.22				$18,529,478.22
Public Schools, *Exhibit A-2*		$ 8,935,375.00			8,935,375.00
Fire Department, *Exhibit A-3*		931,700.00			931,700.00
Police Department, *Exhibit A-4*		435,554.00			435,554.00
Public Baths, *Exhibit A-5*		182,929.55			182,929.55
Playgrounds, *Exhibit A-6*		69,739.28			69,739.28
Parks, *Exhibit A-7*				$9,215,000.00	9,215,000.00
Bridges, Sewers, Pavements, Shade Trees, etc., *Exhibit A-8*			$20,080,880.98		20,080,880.98
Centre Market	900,000.00				
City Dock	60,000.00				
Dock and Ship Canal *Exhibit A-9*	195,952.64				6,505,238.24
Miscellaneous		5,649,285.60			
	$19,685,430.86	$16,204,583.43	$20,080,880.98	$9,215,000.00	$65,185,895.27

SUMMARY.

Remunerative and Realizable	$19,685,430.86
Unremunerative but Realizable	16,204,583.43
Unremunerative and Unrealizable	20,080,880.98
Parks	9,215,000.00
Total as per Balance Sheet	$65,185,895.27

EXHIBIT A-1.

City Properties—Water System.

	Original Cost.	Depreciation Reserved Subsequent to Adoption of Gravity System	Present Value
Water Supply System.			
New Water Supply.....	$ 6,029,374.71		
Searches	2,738.00		
Estimate of benefit accruing from possibilities of Watershed....	5,780,431.33		
Macopin Model Village.	49,537.07		
Orean Park Road.....	21,447.18		
Right of Way Slingerland	600.00		
Right of Way De Bow.	600.00		
			$11,884,728.29
Lands.			
Purchased through Watershed Extension Fund	$ 747,785.92		
Van Duyne Farm in Wanaque Watershed..	3,900.00		
Purchased in 1913 through Watershed Extension Fund.....	100,949.76		
Terhune Diversion Right	1,500.00		
			854,135.68
For New Storage Reservoir	$ 73,857.90		
Hewitt Tract, Charlottesburg—for New Storage Reservoir....	50,670.07		
			124,527.97

Purchased from receipts of Water Department.		59,851.00
Received from East Jersey Water Company in exchange for water 3,876 acres at $30.....		116,280.00
Cost of Searches in Watershed	2,855.60	
Value of Forestry in Watershed	854.50	
		3,710.10
Driven Wells—Belleville	1,693.92	
Pump House	11,883.64	
Belleville Reservoir.....	1.00	
Real Estate surrounding Belleville Reservoir...	12,000.00	
Ferris Property, Belleville	13,965.00	
Low service Reservoir at Clifton Avenue....	1.00	
South Orange Ave. Reservoir	1.00	
Ivy Hill Property, South Orange	81,828.40	
Pumping Station, Clifton Avenue.....	6,000.00	
South Eighth and South Ninth Streets	2,000.00	
Stable and Pipe Yard—So. 8th St. and 14th Ave.	11,000.00	
City Stables — Eighth Ave. and Factory St..	12,134.90	
West Side, Summer Ave. and D'Auria St..	4,000.00	
West Side, Sherman Ave. and Concord St.	32,000.00	
Central Ave. and Hecker St.....	1.00	
West Side, Bloomfield Ave. and No. 6th St..	2,300.00	
		190,809.86

Wells and Basins.			
Drilled Wells	$ 36,165.18		
Driven Wells—Belleville	22,275.21	31,131.25	29,762.94
Caisson Wells	2,453.80		
Settling Basins	1.00		1.00
	$ 60,895.19		
Distribution System.			
Distribution Main	$ 4,136,970.53	$ 974,977.03	$ 3,161,993.50
High Pressure Fire System	405,489.27	11,521.40	393,967.87
Fire Hyrants	145,746.20	2,819.92	142,926.28
Right of Way—Supply Main No. 1, Belleville.	450.00		450.00
Right of Way—Supply Main No. 2, Belleville.	728.35		728.35
	$ 4,689,384.35		
Reservoirs.			
Cedar Grove	$ 1,186,378.29		$ 1,186,378.29
Clifton Ave. Low Service	304,039.12	$ 218,325.12	85,714.00
South Orange Ave. High Service	94,585.26	16,896.41	77,688.85
Belleville—Receiving	140,725.49	24,294.66	116,430.83
Belleville — Keeper's House	5,338.85	2,048.85	3,290.00
Belleville — Appurtenances	1,428.71	1,428.71	
Keeper's House	3,000.00	240.00	2,760.00
	$ 1,735,495.72		
Pumping Stations.			
Belleville—Building	$ 68,754.92	$ 54,042.33	$ 14,712.59
Belleville—Boilers	1.00		1.00
Belleville—Engines	1.00		1.00
Belleville—Engineer and Fireman's Dwellings	22,696.52	18,459.32	4,237.20

River Wall and Dock...	266,111.99	255,147.46	10,964.53
Clifton Ave.—Building..	33,265.16	19,372.17	13,892.99
Clifton Ave.—Boilers...	6,349.82	6,348.82	1.00
Clifton Ave.—Engines..	1.00		1.00
	$ 397,181.41		
Miscellaneous.			
Stables—So. Eighth St..	24,623.42	1,477.38	23,146.04
City Stables — Eighth Ave. and Factory St..	28,471.29	2,085.23	26,386.06
	$ 53,094.71		
	$20,170,094.28	$1,640,616.06	$18,529,478.22

EXHIBIT A-2.

Public Schools.

Land and Buildings—

Normal and Training School	$ 88,000.00
Normal School (new site)	367,000.00
Barringer High School	367,000.00
Central C. & M. T. High School	628,600.00
East Side C. & M. T. High School	297,000.00
South Side High School	52,000.00
Abington Avenue School	173,200.00
Alexander Street School	71,000.00
Alexander Street District	19,800.00
Ann Street School	67,000.00
Avon Avenue School	211,000.00
Belmont Avenue School	298,000.00
Bergen Street School	189,000.00
Bruce Street	71,000.00
Burnet Street	263,000.00
Camden Street	79,000.00
Central Avenue	102,900.00
Charlton Street School	120,000.00
Chestnut Street School	73,000.00
Cleveland School	277,000.00
Eighteenth Avenue School	76,000.00
Elizabeth Avenue School	35,800.00
Elizabeth Avenue District	28,800.00
Elliott Street School	116,700.00
Fifteenth Avenue School	68,000.00

Fourteenth Avenue School	148,000.00
Franklin School	169,500.00
Hamburg Place School	194,000.00
Hawkins Street School	59,000.00
Hawthorne Avenue School	166,000.00
Hawthorne Avenue District	10,175.00
Lafayette Street School	208,000.00
Lawrence Street School	75,000.00
Lincoln School	85,800.00
Livingston Street School	10,000.00
Madison School	180,000.00
Market Street School	98,000.00
Miller Street School	232,400.00
Monmouth Street School	70,000.00
Montgomery Street School	172,000.00
Morton Street School	350,000.00
Newton Street School	323,000.00
North Seventh Street School	71,500.00
Oliver Street School	82,000.00
Park Avenue (Dayton)	5,500.00
Parker Street School	24,000.00
Peshine Avenue School	117,800.00
Prospect Avenue	4,300.00
Ridge Street School	130,500.00
Roseville Avenue School	43,700.00
Seventh Avenue School	124,800.00
Sixteenth Ward Site	18,000.00
South Street School	63,000.00
South Eighth Street School	168,000.00
South Market Street School	78,000.00
South Tenth Street School	61,000.00
State Street School	34,000.00
Summer Avenue School	58,000.00
Summer Place School	38,500.00

Sussex Avenue School	77,000.00
Thirteenth Avenue School	201,500.00
Walnut Street School	14,500.00
Warren Street School	151,000.00
Boys' Industrial School	12,000.00
Washington Street School	133,000.00
Waverly Avenue School	63,500.00
Webster Street School	165,000.00
West Side School	138,200.00
Ungraded No. 1 (West)	26,300.00
Ungraded No. 2 (West)	21,100.00
Marshall Street (Shop)	14,000.00
Fawcett School of Industrial Arts	55,000.00
Physical Training Field	50,000.00
Total	$8,935,375.00

EXHIBIT A-3.

Fire Department.

Land and Buildings—

Engine Co. No. 1	$ 83,000.00
Engine Co. No. 2	28,350.00
Engine Co. No. 3	18,000.00
Engine Co. No. 4	17,000.00
Engine Co. No. 5	17,500.00
Engine Co. No. 6	36,000.00
Engine Co. No. 7	25,000.00
Engine Co. No. 8	17,250.00
Engine Co. No. 9	35,000.00
Engine Co. No. 10	33,000.00

Engine Co. No. 11	23,000.00
Engine Co. No. 12 Truck Co. No. 5.	31,750.00
Engine Co. No. 13	18,000.00
Engine Co. No. 14	16,000.00
Engine Co. No. 15	17,500.00
Engine Co. No. 16	16,000.00
Engine Co. No. 17	16,800.00
Engine Co. No. 18	20,000.00
Engine Co. No. 19	22,500.00
Engine Co. No. 20	22,600.00
Engine Co. No. 21	10,000.00
Engine Co. No. 22	32,700.00
Engine Co. No. 23	41,000.00
Chemical Engine Co. No. 1 Water Tower Co. No. 1... Truck Co. No. 1.....	77,000.00
Truck Co. No. 2	15,500.00
Truck Co. No. 3	15,000.00
Truck Co. No. 4	15,500.00
Truck Co. No. 6	21,400.00
Truck Co. No. 7	24,500.00
Truck Co. No. 8	25,100.00
Truck Co. No. 9	43,850.00
Supplies and Repair Shop—Prospect Street	95,900.00
Total	$ 931,700.00

EXHIBIT A-4.

Police Department.

Land and Buildings—	
First Precinct — Washington and Court Streets	$ 128,972.00
Second Precinct—Summer and Seventh Avenues	65,000.00
Third Precinct—136-142 Van Buren Street	32,000.00
Fourth Precinct—17th Ave. and Livingston St.	60,732.00
Fifth Precinct—Orange and No. 6th Streets	53,850.00
Sixth Precinct — Hunterdon and Bigelow Streets	95,000.00
Total	$ 435,554.00

EXHIBIT A-5.

Public Baths.

Land and Buildings—	
279-285 Morris Avenue	$ 15,000.00
360-362 Walnut Street	18,000.00
6-8 Summer Avenue	20,000.00
110-118 Montgomery Street	129,929.55
Total	$ 182,929.55

EXHIBIT A-6.

Playgrounds.

Land and Buildings—	
93-95 Waverly Avenue	$ 9,654.58
68-82 Newton Street 41-47 Wallace Street	35,000.00
139 Commerce Street	7,343.53
143-151 South Canal Street	17,741.17
Total	$ 69,739.28

EXHIBIT A-7.

City Properties.

PARKS.

Military Park, 6.44 acres	$6,000,000.00
Lombardy Park, 0.22 acres	10,000.00
Washington Park, 3.35 acres	1,700,000.00
Orange Park, 0.16 acres	7,500.00
Court House Park, 0.12 acres	72,000.00
Clinton Park, 0.41 acres	100,000.00
Union Park, 0.14 acres	15,000.00
Brientnall Park, 0.04 acres	5,000.00
Buchanan Park, 0.026 acres	2,500.00
Wallace Park, 0.17 acres	6,000.00
Mt. Prospect Park, 0.35 acres	5,000.00
Phillips Park, 0.53 acres	20,000.00
Central Park, 0.61 acres	30,000.00
Madison Park, 0.019 acres	1,000.00
Peshine Park, 0.02 acres	2,000.00
Milford Park, 0.97 acres	10,000.00
Jackson Park, 0.36 acres	15,000.00
Lincoln Park, 4.17 acres	1,200,000.00
Sussex Avenue Park, 0.13 acres	10,000.00
Vailsburg Park, 0.48 acres	2,500.00
Herpers Park, 0.45 acres	1,500.00
Total	$9,215,000.00

EXHIBIT A-8.

City Properties.

BRIDGES, SEWERS, PAVEMENTS, SHADE TREES, ETC.

Depreciated value at Dec. 31, 1913, of:

Bridges	$ 50,700.00
Sewers	5,396,861.18
Sewers—Private	208,828.05

House Sewer Connections	116,768.81
Pavements	10,054,077.64
Street Curbing and Flagging	1,552,800.00
Flagging	1,336,125.00
Shade Trees	1,361,444.30
Street Signs	3,276.00
Total	$20,080,880.98

EXHIBIT A-9.

City Properties.

MISCELLANEOUS LAND AND BUILDINGS.

City Hall	$3,000,000.00
Public Library	700,000.00
Alms House—Elizabeth Avenue	93,000.00
City Hospital	535,000.00
Tuberculosis Sanitarium — Verona, N. J.	57,435.00
City Home—Verona, N. J.	200,800.00
City Cemetery	10,000.00
Public Outing Camp—Neptune City, N. J.	15,730.00
Drake's Pond—Irvington	14,500.00
Rights of Way for Sewers	4,752.60
Sewer Pumping Station — Bay Avenue	60,000.00
663-665 South Tenth Street—(Vacant Plot)	5,300.00
Meadow Land	700.00
So, 16th Street—(Vacant Plot)	200.00
1028-1030 Bergen Street—(Vacant Plot)	3,600.00
City Dispensary and Board of Health Building	143,550.10

Additional Hospital Accommodations (in course of construction at City Hospital)	534,265.27	
Alms House (in course of construction at Ivy Hill)	270,452.63	
		$5,649,285.60
Centre Market		900,000.00
City Dock		60,000.00
Dock and Ship Canal (in course of construction)		195,952.64
Total		$6,805,238.24

BALANCE SHEET—EXHIBIT B.

Equipment, Furniture, Tools, Supplies, Etc., as Physically Inventoried.

GENERAL ADMINISTRATION.

City Hall and Annex Building, Etc.

Furniture, etc.	$233,586.76	
Stationery Supplies	3.680.17	
Janitor's Supplies	2.087.74	
Block Maps — Board of Assessment	155,000.00	
Statistical Library	17,066.13	
License Department	271.50	
		$ 411,692.30

PROTECTION OF LIFE, HEALTH AND PROPERTY.

Fire Department	$521,086.59	
Police Department	131,290.55	

Board of Health—			
General Supplies—Sanitary Department	$ 5,683.24		
Bacteriological Laboratory	3,119.20		
City Dispensary	3,460.08		
Tuberculosis Sanitarium	11,748.90		
City Hospial	41,310.15		
Dept. of Child Hygiene.	398.15		
		$ 65,719.72	
Gas Meter Testing Apparatus		1,615.04	
Sealer of Weights and Measures—Appliances		2,969.00	
			722,680.90
PUBLIC CHARITIES AND CORRECTION.			
Alms House		9,912.05	
City Home—Verona		35,095.82	
Free Dental Clinic		1,646.95	
			46,654.82
PUBLIC HIGHWAYS AND SANITATION.			
Surveyor's Department		73,252.50	
Streets and Highways		37,089.63	
Sewers and Drainage		5,083.25	
House Sewer Connections		2,907.65	
City Plan Commission		571.44	
Repairs to Asphalt Streets		13,730.70	
Public Lighting		394.00	
Department of Buildings		1,043.00	
Shade Tree Commission		20,336.10	
			154,408.27
PUBLIC INDUSTRIES.			
Department of Water		158,976.73	
Centre Market		1,121.00	
			160,097.73

PUBLIC RECREATION.

Playgrounds	4,180.78	
Camp Newark	2,744.90	
Public Baths	1,613.63	
		8,539.31

EDUCATION.

Public Schools	445,186.46	
Public Library	303,888.50	
Art, Science and Industrial Museum	43,270.00	
		792,344.96
Total as per Balance Sheet		$2,296,418.29

BALANCE SHEET—EXHIBIT C.

Advances for Passaic Valley Sewer and Other Permanent Improvements in Course of Construction.

Passaic Valley Sewerage Commission:		
Cash Advances	$2,263,648.93	
Interest on Temporary Loan Bonds	21,854.17	
		$2,285,503.10
Alms House Construction:		
Interest on Temporary Loan Bonds		9,843.75
Total as per Balance Sheet		$2,295,346.85

BALANCE SHEET—EXHIBIT D.

Assets Available for Permanent Improvements or Reduction of Debt.

Sewer Assessments Outstanding	$350,261.90	
Paving Assessments Outstanding	502,271.22	
G. C. & F. Assessments Outstanding	93,659.28	

Opening Streets Assessments Outstanding		65,150.84	
Leases for Street Improvements		3,779.41	
Road Improvements		642.35	
Shade Tree Taxes—			
Year 1913	$5,423.68		
" 1912	687.68		
" 1911	474.25		
" 1910	454.57		
" 1909	22.56		
" 1908	322.63		
" 1907	38.69		
" 1905	7.48		
		7,431.54	
House Sewer Connections		22,430.88	
Repairing Sidewalks		6,260.52	
			$1,051,887.94
Paving Assessments under Chapter 217, Laws 1895			401,728.29
Opening Streets Assessments under Chapter 9, Laws 1909			78,595.46
Total as per Balance Sheet			$1,532,211.69

BALANCE SHEET—EXHIBIT E.

Cost of Street Improvements Not Yet Assessed.

Damages Awarded for Street Openings			$ 26,031.95
Pavings—			
General	$172,257.01		
Under Chapter 217, Laws 1895	130,296.83		
			302,553.84
Sewers			489,024.87
Grading, Curbing and Flagging			82,573.65
Total as per Balance Sheet			$ 900,184.31

BALANCE SHEET—EXHIBIT F.

Cash on Hand and in Banks.

AVAILABLE FOR PERMANENT IMPROVEMENTS OR REDUCTION OF DEBT.

Accumulations of Collections from Assessments for Opening Streets under Chapter 8, of the Laws of 1909, to be used for the redemption of Bonds issued under this law.	$ 16,521.67
Funds available for Construction of Additional Hospital Accommodations	123,694.63
Alms House Construction	29,547.37
Docks and Ship Canal Improvements	4,047.36
Extension of Watershed	45,888.40
Construction of a Storage Reservoir	2,598.64
Fire House, Vailsburg Section.	2,000.00
Playground Construction	5,260.72
Track Elevation	6,902.78
Ashes and Refuse Station	4,650.00
Passaic Valley Sewerage System	1,156,351.07
Paving Streets under Chap. 217, Laws 1895	2,451.36

Opening Streets under Chapter 121, Laws 1912.	$1,000,000.00		
Less Advance to General Fund ..	766,773.99		
		233,226.01	
			$1,633,140.01
Board of Education for further School Construction			223,264.65
Total as per Balance Sheet.....			$1,856,404.66
General Fund		$ 70,762.04	
Department of Water—			
Deposited with City Treasurer	$213,214.09		
Trust Funds for repayment of duplicate payments, deposits, etc.	11,885.52		
Working Funds	625.00		
		225,724.61	
Custodian of School Money—			
Amount available for maintenance of Public School System, from Jan. 1 to June 30, 1914		1,023,822.82	
Total as per Balance Sheet.....			$1,320,309.47

BALANCE SHEET—EXHIBIT G.

General City Taxes Outstanding, Less Reserve for Uncollected Personal Taxes.

GENERAL CITY TAXES.

Year.	
1913	$1,976,104.20

TAXES IN ARREARS.

Real Estate Taxes—		
1912	$190,506.85	
1911	20,858.11	
1910	4,556.12	
1909	2,169.63	
1908	1,893.39	
1907	5,900.44	
1906	5,324.20	
1905	215.12	
1903	612.04	
		232,035.90
Real Estate Tax Certificates—		
1910	$ 588.10	
1906	389.52	
1905	864.05	
1904	1,205.31	
1903	162.43	
		3,209.41
Tax Leases—		
1902	$ 864.05	
1901	880.00	
1900	800.37	
1899	838.40	
1898	1,175.50	
1897	1,172.62	
1896	1,161.57	
1895	918.01	
1894	1,001.03	

1893	901.60		
1892	686.29		
1891	528.00		
1890	559.47		
1889	375.40		
1888	76.03		
1887	191.56		
1886	206.98		
1885	182.67		
1884	196.66		
1883	176.60		
1882	190.71		
1881	181.06		
1880	195.14		
1879	171.87		
1878	183.45		
1877	174.31		
1876	161.73		
1875	118.72		
1874	141.65		
1873	114.23		
1872	60.63		
1871	48.82		
1870	52.79		
1869	35.03		
1868	4.32		
1865	1.27		
1864	3.31		
1862	1.71		
1858	2.71		
			$ 14,736.27
Personal Taxes—			
1912	$ 62,902.08		
1911	51,793.44		
1910	47,122.72		
1909	40,549.25		
1908	37,691.64		
1907	42,736.05		
1906	31,391.48		
		$314,186.66	
Less Reserve for Uncollected Personal Taxes	$ 55,563.05	$258,623.61	$2,484,709.39

DEPARTMENT OF WATER.

Uncollected Water Rents—

Metered Accounts	$ 96,718.67		
Unmetered Accounts	29,666.06		
Service Insulation	17,570.55		
Service Arrears in hands of Comptroller	16,023.53		
Building Permits	2,862.66		
Trust Funds	435.75		
Outstanding Rents	169.00		
		$163,446.22	
Less Reserve for Uncollected Accounts		18,480.86	$ 144,965.36
Total as per Balance Sheet			$2,629,674,75

BALANCE SHEET—EXHIBIT H.

Amounts Assessed on City and City Property for Street Improvements Assessed in 1913.

Deferred Charges Against Future Revenues.

Chargeable to 1914 *Tax Levy—*

City's share of Street Improvements constructed in 1913:		
Sewers	$27,210.11	
Pavings—General	53,349.71	
Pavings — Chapter 217, Laws 1895	80,523.52	
		$161,083.34
Redeemable Through Future Bond Issues—		
Openings—Chapter 8, Laws 1909		84,882.87
Total as per Balance Sheet		$245,966.21

BALANCE SHEET—EXHIBIT I

STATEMENT OF BONDED DEBT
AND AMOUNT IN SINKING FUND

BALANCE SHEET—EXHIBIT I

Statement of Bonded Debt and Amount in Sinking Fund

NAME OF BOND	Amount	Authorized by Act of Legislature	Date	Term	Due	Interest	Sinking Fund	Amount in Sinking Fund	Sinking Fund and Interest Raised by
Vailsburg School Bonds	1,000.00	Mar. 27, 1874	July 1, 1900	14 years	July 1, 1914	4%	$1,000 year	$ 1,277.83	Tax Ordinance
Water Bonds	30,000.00	Mar. 6, 1884	Oct. 1, 1884	30 "	Oct. 1, 1914	4%	3%	38,542.59	Receipts Water Dept.
Due 1914	*31,000.00*								
Water Bonds	200,000.00	Mar. 6, 1884	Feb. 1, 1885	30 "	Feb. 1, 1915	4½%	3%	235,427.94	Receipts Water Dept.
Vailsburg School Bonds	1,000.00	Mar. 27, 1874	July 1, 1900	15 "	July 1, 1915	4%	$1,000 year	.....	Tax Ordinance
Street Opening Bonds	100,000.00	Mar. 17, 1892	Aug. 5, 1895	20 "	Aug. 1, 1915	4%	3½%	126,185.29	Tax Ordinance
Water Bonds	40,000.00	Mar. 26, 1888	Aug. 21, 1895	20 "	Aug. 21, 1915	4%	3%	29,912.03	Receipts Water Dept.
Water Bonds	15,000.00	Mar. 6, 1884	Oct. 31, 1885	30 "	Oct. 31, 1915	4½%	3%	17,673.11	Receipts Water Dept.
Due 1915	*356,000.00*								
High School Bonds	100,000.00	Feb. 11, 1895	June 1, 1896	20 "	June 1, 1916	4%	3½%	89,567.13	Tax Ordinance
Vailsburg School bonds	1,000.00	Mar. 27, 1874	July 1, 1900	16 "	July 1, 1916	4%	$1,000 year	.....	Tax Ordinance
Water Bonds	12,000.00	Mar. 6, 1884	Aug. 1, 1886	30 "	Aug. 1, 1916	4%	3%	12,842.21	Receipts Water Dept.
Water Bonds	40,000.00	Mar. 26, 1888	Oct. 20, 1696	20 "	Oct. 20, 1916	4%	3%	27,725.81	Receipts Water Dept.
Due 1916	*153,000.00*								
Water Bonds	15,000.00	Mar. 6, 1884	April 1, 1887	30 "	April 1, 1917	4%	3%	14,905.01	Receipts Water Dept.
Vailsburg School Bonds	1,000.00	Mar. 27, 1874	July 1, 1900	17 "	July 1, 1917	4%	$1,000 year	.....	Tax Ordinance
High School Bonds	200,000.00	Feb. 11, 1895	Oct. 1, 1897	20 "	Oct. 1, 1917	3.35%	3½%	136,670.21	Tax Ordinance
Due 1917	*216,000.00*								
Water Bonds	20,000.00	Mar. 6, 1884	Mar. 1, 1888	30 "	Mar. 1, 1918	4½%	3%	18,415.00	Receipts Water Dept.
Vailsburg School Bonds	1,000.00	Mar. 27, 1874	July 1, 1900	18 "	July 1, 1918	4%	$1,000 year	.....	Tax Ordinance
Public School Bonds	100,000.00	Feb. 24, 1898	Aug. 8, 1898	20 "	Aug. 8, 1918	4%	3½%	60,360.66	Tax Ordinance
Due 1918	*121,000.00*								
Water Bonds	20,000.00	May 18, 1898	Oct. 12, 1899	20 "	Oct. 12, 1919	4%	3%	10,804.79	Receipts Water Dept.
Vailsburg School Bonds	1,000.00	Mar. 27, 1874	July 1, 1900	19 "	July 1, 1919	4%	$1,000 year	.....	Tax Ordinance
Due 1919	*21,000.00*								
Vailsburg School Bonds	1,000.00	Mar. 27, 1874	July 1, 1900	20 "	July 1, 1920	4%	$1,000 year	.....	Tax Ordinance
Water Bonds	20,000.00	May 18, 1898	Aug. 1, 1900	20 "	Aug. 1, 1920	4%	3%	9,855.50	Receipts Water Dept.
Due 1920	*21,000.00*								
Water Bonds	20,000.00	May 18, 1898	Sept. 1, 1901	20 "	Sept. 1, 1921	4%	3%	8,922.88	Receipts Water Dept.
Due 1921	*20,000.00*								
Funded Debt Water Bonds	2,450,000.00	May 14, 1889	Feb. 1, 1892	30 "	Feb. 1, 1922	4%	2%	1,510,806.90	Receipts Water Dept.
New Supply Water Bonds	6,000,000.00	May 14, 1889	May 1, 1892	30 "	May 1, 1922	4%	2%	3,123,658.19	Receipts Water Dept.
Water Bonds	30,000.00	May 18, 1898	Oct. 1, 1902	20 "	Oct. 1, 1922	4%	3%	12,028.45	Receipts Water Dept.
Due 1922	*8,480,000.00*								
Funded Debt City Imp. Bonds	1,500,000.00	June 9, 1890	Mar. 15, 1893	30 "	Mar. 15, 1923	4%	2%	902,653.09	Tax Ordinance
Water Bonds	30,000.00	May 18, 1898	July 1, 1903	20 "	July 1, 1923	4%	3%	11,376.51	Receipts Water Dept.
Refund Corporate Bonds	130,000.00	Mar. 4, 1902	July 1, 1908	15 "	July 1, 1923	4%	5%	42,510.26	Tax Ordinance
Due 1923	*1,660,000.00*								
Water Bonds	50,000.00	May 18, 1898	May 1, 1905	20 "	May 1, 1925	4%	3%	15,776.08	Receipts Water Dept.
Refund Corporate Bonds	75,000.00	Mar. 4, 1902	June 1, 1910	15 "	June 1, 1925	4%	5%	15,693.19	Tax Ordinance
Due 1925	*125,000.00*								
Free Library Bonds	300,000.00	Mar. 16, 1896	June 1, 1897	30 "	June 1, 1927	4%	2%	142,870.45	Tax Ordinance
Funded Debt Water Bonds	100,000.00	May 14, 1889	Aug. 1, 1897	30 "	Aug. 1, 1927	4%	2%	42,694.59	Receipts Water Dept.
Due 1927	*400,000.00*								
Vailsburg Water Bonds	20,000.00	Apr. 24, 1897	Oct. 1, 1898	20 "	Oct. 1, 1928	4½%	2%	6,074.54	Receipts Water Dept.
Water Bonds	50,000.00	Mar. 26, 1888	Nov. 16, 1908	20 "	Nov. 16, 1928	4%	3½%	9,452.51	Receipts Water Dept.
Due 1928	*70,000.00*								
Funded Debt Water Bonds	100,000.00	Mar. 8, 1905	May 1, 1909	20 "	May 1, 1929	4%	3½%	18,905.04	Receipts Water Dept.
Public School Bonds	300,000.00	Mar. 23, 1899	Dec. 1, 1899	30 "	Dec. 1, 1929	3½%	2%	110,677.46	Tax Ordinance
Due 1929	*400,000.00*								
High Pressure Water Bonds	50,000.00	Mar. 28, 1904	Mar. 1, 1910	20 "	Mar. 1, 1930	4%	3½%	7,417.80	Receipts Water Dept.
Water Bonds	50,000.00	Mar. 26, 1888	Mar. 1, 1910	20 "	Mar. 1, 1930	4%	3½%	7,417.80	Receipts Water Dept.
Corporate Bonds	1,030,000.00	Apr. 12, 1910	July 1, 1910	20 "	July 1, 1930	4%	3½%	112,047.81	Tax Ordinance
Due 1930	*1,130,000.00*								
Free Library Bonds	50,000.00	Mar. 19, 1900	Jan. 1, 1901	30 "	Jan. 1, 1931	3½%	2%	17,783.21	Tax Ordinance
New City Hall Bonds	1,000,000.00	Apr. 15, 1887	Jan. 1, 1901	30 "	Jan. 1, 1931	3½%	2%	482,404.42	Tax Ordinance
High Pressure Water Bonds	100,000.00	Mar. 28, 1904	May 1, 1911	20 "	May 1, 1931	4%	3½%	7,135.84	Receipts Water Dept.
Water Bonds	50,000.00	Mar. 26, 1888	May 1, 1911	20 "	May 1, 1931	4%	3½%	3,567.92	Receipts Water Dept.
Due 1931	*1,200,000.00*								
New City Hospital Bonds	200,000.00	May 17, 1894	Jan. 1, 1902	30 "	Jan. 1, 1932	3½%	2%	97,141.70	Tax Ordinance
Track Elevation Bonds	500,000.00	Mar. 23, 1900	Jan. 1, 1902	30 "	Jan. 1, 1932	3½%	2%	161,992.87	Tax Ordinance
New City Hall Bonds	500,000.00	Apr. 15, 1887	Oct. 1, 1902	30 "	Oct. 1, 1932	3½%	2%	162,555.59	Tax Ordinance
Public School Bonds	100,000.00	Apr. 22, 1902	Oct. 1, 1902	30 "	Oct. 1, 1932	3½%	2%	26,118.13	Tax Ordinance
High Pressure Water Bonds	25,000.00	Mar. 28, 1904	May 1, 1912	20 "	May 1, 1932	4%	3%	1,329.18	Receipts Water Dept.
Water Bonds	50,000.00	Mar. 26, 1888	June 1, 1912	20 "	June 1, 1932	4%	3½%	1,750.00	Receipts Water Dept.
Due 1932	*1,475,000.00*								
Public School Bonds	100,000.00	Mar. 26, 1902	May 1, 1903	30 "	May 1, 1933	3½%	2%	24,738.24	Tax Ordinance
Public School Bonds	15,000.00	Mar. 26, 1902	June 24, 1903	30 "	June 24, 1933	3½%	2%	4,054.99	Tax Ordinance
Vailsburg School Bonds	25,000.00	Oct. 19, 1903	Nov. 1, 1903	30 "	Nov. 1, 1933	4½%	2%	6,918.13	Tax Ordinance
High Pressure Water Bonds	50,000.00	Mar. 28, 1904	Mar. 1, 1913	20 "	Mar. 1, 1933	4¼%	3½%	875.00	Receipts Water Dept.
Water Bonds	200,000.00	Apr. 16, 1911	Mar. 1, 1913	20 "	Mar. 1, 1933	4¼%	3½%	3,500.00	Receipts Water Dept.
Due 1933	*390,000.00*								
Vailsburg Sewer Bonds	140,000.00	Mar. 15, 1899	Jan. 1, 1904	30 "	Jan. 1, 1934	4½%	2%	29,987.61	Tax Ordinance
School Bonds	200,000.00	Oct. 19, 1903	April 1, 1904	30 "	Oct. 1, 1934	4%	2%	44,043.91	Tax Ordinance
High Pressure Water Bonds	100,000.00	Mar. 28, 1904	Aug. 1, 1904	30 "	Aug. 1, 1931	3½%	2%	21,034.79	Receipts Water Dept.
Vailsburg Sewer Bonds	10,000.00	Mar. 15, 1899	Oct. 1, 1904	30 "	Oct. 1, 1934	4½%	2%	1,760.09	Tax Ordinance
Due 1934	*450,000.00*								
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Aug. 1, 1908	30 "	Aug. 1, 1938	4%	2%	10,802.89	Receipts Water Dept.
High Pressure Water Bonds	100,000.00	Mar. 28, 1904	Sept. 1, 1908	30 "	Sept. 1, 1938	4%	2%	10,802.89	Receipts Water Dept.
Due 1938	*200,000.00*								
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Mar. 1, 1909	30 "	Mar. 1, 1939	4%	2%	10,802.89	Receipts Water Dept.
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Nov. 15, 1909	30 "	Nov. 15, 1939	4%	2%	8,477.48	Receipts Water Dept.
Due 1939	*200,000.00*								
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	April 1, 1910	30 "	April 1, 1940	4%	2%	8,477.48	Receipts Water Dept.
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Sept. 1, 1910	30 "	Sept. 1, 1940	4%	2%	6,236.46	Receipts Water Dept.
Due 1940	*200,000.00*								
Fire and Police Building Bonds	350,000.00	Mar. 24, 1906	May 1, 1911	30 "	May 1, 1941	4%	2%	18,043.49	Tax Ordinance
Bath House Bonds	125,000.00	Apr. 11, 1910	May 1, 1911	30 "	May 1, 1941	4%	2%	6,444.10	Tax Ordinance
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	April 1, 1911	30 "	April 1, 1941	4%	2%	4,077.62	Receipts Water Dept.
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Aug. 1, 1911	30 "	Aug. 1, 1941	4%	2%	4,077.62	Receipts Water Dept.
Playground Bonds	75,000.00	May 1, 1911	Nov. 1, 1911	30 "	Nov. 1, 1941	4%	2%	3,057.73	Tax Ordinance
Due 1941	*750,000.00*								
City Hospital Bonds	150,000.00	Mar. 8, 1912	April 1, 1912	30 "	April 1, 1942	4%	2%	3,000.00	Tax Ordinance
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	June 1, 1912	30 "	June 1, 1942	4%	2%	2,000.00	Receipts Water Dept.
City Hospital Bonds	150,000.00	Mar. 8, 1912	Nov. 1, 1912	30 "	Nov. 1, 1942	4%	2%	3,000.00	Tax Ordinance

New City Hospital Bonds	300,000.00	May 17, 1894	Jnn. 1, 1902	30 "	Jan. 1, 1932	3½%	2%	97,141.70	Tax Ordinance
Track Elevation Bonds	500,000.00	Mar. 23, 1900	Jan. 1, 1902	30 "	Jan. 1, 1932	3½%	2%	161,902.87	Tax Ordinance
New City Hall Bonds	500,000.00	Apr. 15, 1887	Oct. 1, 1902	30 "	Oct. 1, 1932	3½%	2%	162,555.59	Tax Ordinance
Public School Bonds	100,000.00	Apr. 22, 1902	Oct. 1, 1902	30 "	Oct. 1, 1932	3½%	2%	26,118.13	Tax Ordinance
High Pressure Water Bonds	25,000.00	Mar. 28, 1904	May 1, 1912	20 "	May 1, 1932	4%	3%	1,329.48	Receipts Water Dept.
Water Bonds	50,000.00	Mar. 26, 1888	June 1, 1912	20 "	June 1, 1932	4%	3½%	1,750.00	Receipts Water Dept.
Due 1932	*1,475,000.00*								
Public School Bonds	100,000.00	Mar. 26, 1902	May 1, 1903	30 "	May 1, 1933	3½%	2%	24,738.24	Tax Ordinance
Public School Bonds	15,000.00	Mar. 26, 1902	June 24, 1903	30 "	June 24, 1933	3½%	2%	4,054.99	Tax Ordinance
Vailsburg School Bonds	25,000.00	Oct. 19, 1903	Nov. 1, 1903	30 "	Nov. 1, 1933	4½%	2%	6,918.13	Tax Ordinance
High Pressure Water Bonds	50,000.00	Mar. 28, 1904	Mar. 1, 1913	20 "	Mar. 1, 1933	4¼%	3½%	875.00	Receipts Water Dept.
Water Bonds	200,000.00	Apr. 16, 1911	Mar. 1, 1913	20 "	Mar. 1, 1933	4¼%	3½%	3,500.00	Receipts Water Dept.
Due 1933	*390,000.00*								
Vailsburg Sewer Bonds	140,000.00	Mar. 15, 1899	Jan. 1, 1904	30 "	Jan. 1, 1934	4½%	2%	29,987.61	Tax Ordinance
School Bonds	200,000.00	Oct. 19, 1903	April 1, 1904	30 "	Oct. 1, 1934	4%	2%	44,043.91	Tax Ordinance
High Pressure Water Bonds	100,000.00	Mar. 28, 1904	Aug. 1, 1904	30 "	Aug. 1, 1934	3½%	2%	21,034.79	Receipts Water Dept.
Vailsburg Sewer Bonds	10,000.00	Mar. 15, 1899	Oct. 1, 1904	30 "	Oct. 1, 1934	4½%	2%	1,760.09	Tax Ordinance
Due 1934	*450,000.00*								
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Aug. 1, 1908	30 "	Aug. 1, 1938	4%	2%	10,802.89	Receipts Water Dept.
High Pressure Water Bonds	100,000.00	Mar. 28, 1904	Sept. 1, 1908	30 "	Sept. 1, 1938	4%	2%	10,802.89	Receipts Water Dept.
Due 1938	*200,000.00*								
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Mar. 1, 1909	30 "	Mar. 1, 1939	4%	2%	10,802.89	Receipts Water Dept.
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Nov. 15, 1909	30 "	Nov. 15, 1939	4%	2%	8,477.48	Receipts Water Dept.
Due 1939	*200,000.00*								
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	April 1, 1910	30 "	April 1, 1940	4%	2%	8,477.48	Receipts Water Dept.
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Sept. 1, 1910	30 "	Sept. 1, 1940	4%	2%	6,236.46	Receipts Water Dept.
Due 1940	*200,000.00*								
Fire and Police Building Bonds	350,000.00	Mar. 24, 1906	May 1, 1911	30 "	May 1, 1941	4%	2%	18,043.49	Tax Ordinance
Bath House Bonds	125,000.00	Apr. 11, 1910	May 1, 1911	30 "	May 1, 1941	4%	2%	6,444.10	Tax Ordinance
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	April 1, 1911	30 "	April 1, 1941	4%	2%	4,077.62	Receipts Water Dept.
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Aug. 1, 1911	30 "	Aug. 1, 1941	4%	2%	4,077.62	Receipts Water Dept.
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	Aug. 1, 1911	30 "	Aug. 1, 1941	4%	2%	4,077.62	Receipts Water Dept.
Playground Bonds	75,000.00	May 1, 1911	Nov. 1, 1911	30 "	Nov. 1, 1941	4%	2%	3,057.73	Tax Ordinance
Due 1941	*750,000.00*								
City Hospital Bonds	150,000.00	Mar. 8, 1912	April 1, 1912	30 "	April 1, 1942	4%	2%	3,000.00	Tax Ordinance
Watershed Extension Bonds	100,000.00	Apr. 16, 1908	June 1, 1912	30 "	June 1, 1942	4%	2%	2,000.00	Receipts Water Dept.
City Hospital Bonds	150,000.00	Mar. 8, 1912	Nov. 1, 1912	30 "	Nov. 1, 1942	4%	2%	3,000.00	Tax Ordinance
Due 1942	*400,000.00*								
City Hospital Bonds	500,000.00	Mar. 8, 1912	Mar. 1, 1913	30 "	Mar. 1, 1943	4¼%	2%	.....	Tax Ordinance
Water Bonds	100,000.00	Apr. 16, 1908	June 1, 1913	30 "	June 1, 1943	4½%	2%	.....	Receipts Water Dept.
Market Bonds	700,000.00	Apr. 11, 1912	Dec. 15, 1913	30 "	Dec. 15, 1943	4½%	2½%	.....	Receipts Markets
School Bonds	267,000.00	Oct. 19, 1903	Dec. 31, 1908	35 "	Dec. 31, 1943	4%	2%	28,331.96	Tax Ordinance
Due 1943	*1,567,000.00*								
Track Elevation Bonds	100,000.00	Mar. 30, 1904	May 19, 1904	40-50 years	May 19, 1944-1954	4%	1%	11,217.38	Tax Ordinance
Track Elevation Bonds	450,000.00	Mar. 30, 1904	Aug. 1, 1904	40-50 "	Aug. 1, 1944-1954	3½%	1%	47,320.07	Tax Ordinance
Due 1944-1954	*550,000.00*								
School Bonds	370,000.00	Oct. 19, 1903	April 1, 1905	40-50 "	April 1, 1945-1955	3½%	1%	38,268.37	Tax Ordinance
Storage Reservoir Bonds	1,950,000.00	Feb. 25, 1892	April 1, 1905	40-50 "	April 1, 1945-1955	3½%	1%	205,089.25	Receipts Water Dept.
Funded Debt Water Bonds	490,000.00	Mar. 8, 1905	May 1, 1905	40-50 "	May 1, 1945-1955	3½%	1%	51,535.27	Receipts Water Dept.
School Bonds	70,000.00	Oct. 19, 1903	July 1, 1905	40-50 "	July 1, 1945-1955	3½%	1%	8,855.08	Tax Ordinance
Track Elevation Bonds	250,000.00	Mar. 30, 1904	Oct. 2, 1905	40-50 "	Oct. 1, 1945-1955	3½%	1%	22,894.62	Tax Ordinance
Dock Bonds	100,000.00	Oct. 21, 1907	Oct. 1, 1910	45 "	Oct. 1, 1955	4%	1%	3,116.89	Tax Ordinance
School Bonds	250,000.00	Oct. 19, 1903	Nov. 1, 1905	40-50 "	Nov. 1, 1945-1955	3½%	1%	22,560.79	Tax Ordinance
Due 1945-1955	*3,480,000.00*								
School Bonds	650,000.00	Oct. 19, 1903	April 1, 1906	40-50 "	April 1, 1946-1956	3½%	1%	67,458.47	Tax Ordinance
School Bonds	65,000.00	Oct. 19, 1903	Aug. 1, 1906	40-50 "	Aug. 1, 1946-1956	3½%	1%	5,872.72	Tax Ordinance
Due 1946-1956	*715,000.00*								
School Bonds	1,165,500.00	Oct. 19, 1903	May 1, 1907	40-50 "	May 1, 1947-1957	4%	1%	99,276.16	Tax Ordinance
Due 1947-1957	*1,165,500.00*								
Track Elevation Bonds	172,000.00	Mar. 30, 1904	Sept. 1, 1908	40-50 "	Sept. 1, 1948-1958	4%	1%	9,279.07	Tax Ordinance
School Bonds	1,286,000.00	Oct. 19, 1903	Oct. 1, 1908	40-50 "	Oct. 1, 1948-1958	4%	1%	68,230.14	Tax Ordinance
Due 1948-1958	*1,458,000.00*								
School Bonds	1,289,700.00	Oct. 19, 1903	Dec. 31, 1909	40-50 "	Dec. 31, 1949-1959	4%	1%	54,627.64	Tax Ordinance
Due 1949-1959	*1,289,700.00*								
School Bonds	300,000.00	Oct. 19, 1903	Sept. 1, 1911	40-50 "	Oct. 19, 1951-1961	4%	1%	6,117.68	Tax Ordinance
Passaic Valley Sewer Bonds	1,120,000.00	Mar. 18, 1907	Dec. 1, 1911	40-50 "	Dec. 1, 1951-1961	4%	1%	22,746.06	Tax Ordinance
Due 1951-1961	*1,420,000.00*								
School Bonds	561,000.00	Oct. 19, 1903	April 1, 1912	40-50 "	April 1, 1952-1962	4%	1%	5,610.00	Tax Ordinance
School Bonds	27,000.00	Oct. 19, 1903	Oct. 1, 1912	40-50 "	Oct. 1, 1952-1962	4%	1%	270.00	Tax Ordinance
Due 1952-1962	*588,000.00*								
Dock Bonds	100,000.00	Oct. 21, 1907	June 1, 1912	45 "	June 1, 1957	4%	1%	1,000.00	Tax Ordinance
Due 1957	*100,000.00*								
	$30,802,200.00							*$8,899,728.76*	

SUMMARY

Rates of Interest on Bonds

$ 200,000.00 @ 3.35%	$ 6,700.00
7,510,000.00 @ 3½ %	262,850.00
21,112,200.00 @ 4 %	844,488.00
750,000.00 @ 4¼ %	31,875.00
1,230,000.00 @ 4½ %	55,350.00
$30,802,200.00	$1,201,263.00

Rate of Sinking Fund

$10,766,200.00 @ 1 %	$ 107,662.00
16,327,000.00 @ 2 %	326,540.00
700,000.00 @ 2½ %	17,500.00
567,000.00 @ 3 %	17,010.00
2,230,000.00 @ 3½ %	78,050.00
205,000.00 @ 5 %	10,250.00
7,000.00 $1,000 each year	1,000.00
$30,802,200.00	$ 558,012.00

Purposes for Which Contracted

Water Bonds	$13,377,000.00
High School Bonds	300,000.00
Public School Bonds	7,148,200.00
Vailsburg Sewer Bonds	150,000.00
Fire and Police Building Bonds	350,000.00
Public Bath House Bonds	125,000.00
Street Opening Bonds	100,000.00
Playgrounds Bonds	75,000.00
Funded Debt City Improvement Bonds	1,500,000.00
Refund Corporate Bonds	205,000.00
Dock and Ship Canal Bonds	200,000.00
Free Library Bonds	350,000.00
Passaic Valley Sewer Bonds	1,120,000.00
Corporate Bonds	1,030,000.00
City Hall Bonds	1,500,000.00
City Hospital Bonds	1,100,000.00
Track Elevation Bonds	1,472,000.00
Market Bonds	700,000.00
	$30,802,200.00

Sinking Fund and Interest to be Raised by Tax Ordinance

SINKING FUND		INTEREST	
$ 8,326,200.00 @ 1 %	$ 83,262.00	$ 200,000.00 @ 3.35%	$ 6,700.00
6,657,000.00 @ 2 %	133,140.00	4,970,000.00 @ 3½ %	173,950.00
1,530,000.00 @ 3½ %	53,550.00	10,880,200.00 @ 4 %	435,208.00
205,000.00 @ 5 %	10,250.00	500,000.00 @ 4¼ %	21,250.00
7,000.00 @ $1,000.00 each year	1,000.00	175,000.00 @ 4½ %	7,875.00
$16,725,200.00	$ 281,202.00	$16,725,200.00	$ 644,983.00

Sinking Fund and Interest to be Raised by Receipts from Water Department

SINKING FUND		INTEREST	
$ 2,440,000.00 @ 1 %	$ 24,400.00	$ 2,540,000.00 @ 3½ %	$ 88,900.00
9,670,000.00 @ 2 %	193,400.00	10,232,000.00 @ 4 %	409,280.00
567,000.00 @ 3 %	17,010.00	250,000.00 @ 4¼ %	10,625.00
700,000.00 @ 3½ %	24,500.00	355,000.00 @ 4½ %	15,975.00
$13,377,000.00	$ 259,310.00	$13,377,000.00	$ 524,780.00

Sinking Fund and Interest to be Raised by Receipts from Markets

SINKING FUND		INTEREST	
$ 700,000.00 @ 2½ %	$ 17,500.00	$ 700,000.00 @ 4½ %	$ 31,500.00

BALANCE SHEET—EXHIBIT J.

Insurance Fund Commission.

Resources.

Investments in City of Newark Bonds.....	$155,000.00
Premiums Collectible from various City Departments	10,875.35
Cash on Hand and in Bank.....	8,856.93
Total as per Balance Sheet.....	$174,732.28

BALANCE SHEET—EXHIBIT K.

Temporary Loan Bonds Issued on Account of Capital Construction as Undernoted.

Redeemable by Application of All Assessments Receipts—		
Sewers	$ 735,000.00	
Pavings—General	650,000.00	
Pavings—Chapter 217, Laws 1895	615,000.00	
Openings—Chapter 8, Laws 1909	180,000.00	
Openings—Chapter 121, Laws 1912	1,000,000.00	
		$3,180,000.00

To be Converted into Permanent Bonds—		
Passaic Valley Sewer Commission	$2,300,000.00	
Alms House Construction	300,000.00	
		2,600,000.00
		$5,780,000.00
Issued in anticipation of Collection of General City Taxes		1,143,000.00
Total as per Balance Sheet		$6,923,000.00

BALANCE SHEET—EXHIBIT L.

Funds Held in Trust.

Retained in General Fund Cash—	
Longworth Fund	$ 5,000.00
Tichenor Fund	2,300.00
Sayre Fund	4,000.00
Total as per Balance Sheet	$11,300.00

BALANCE SHEET—EXHIBIT M.

Current Liabilities.

Balance of Appropriation of 1913 Taxes owing County Collector		$1,500,000.00
Liability to Property Owners, for Amounts Collected by the City—		
Redemption under Martin Act	$14,199.61	
Surplus under Martin Act	20,730.92	

Private Sewer Assessments.....	453.83	
Assessments to be Refunded.....	28,857.67	
Street Opening Awards unpaid...	5,122.20	
Damages and Claims.....	10,801.94	
		80,166.17

Sundry Creditors—

Outstanding claims paid in 1914..	$435,628.41	
Liability for land purchased—pending adjustment	1,200.00	
Percentage retained due Contractors	180,840.42	
Amount owing County—on account of Road Assessments....	3,870.66	
General City Warrants not presented to Treasurer.....	563.25	
		622,102.74
		$2,202,268.91

Department of Water—

Accrued Interest on Bonds.....	$129,333.33	
Consumers' Deposits	12,581.06	
Wages unpaid and accrued.....	2,927.61	
Accrued Liability Insurance.....	1,174.51	
		146,016.51
Total as per Balance Sheet.....		$2,348,285.42

BALANCE SHEET—EXHIBIT N.

Reserve.

Reserve of City's Proportion of Future Improvement Assessments—		
Opening Streets	$30,701.50	
Grading, Curbing and Flagging	47,763.75	
		$ 78,465.25
Collections applicable to the reduction of interest payable on Temporary Loan Bonds under Chapter 8, Laws 1909		1,276.58
Adjustment of current year's taxes		64,921.98
		$144,663.81
Department of Water—		
Pending Litigation	$9,500.00	
Miscellaneous Equipment	3,586.50	
		13,086.50
Total as per Balance Sheet		$157,750.31

BALANCE SHEET—EXHIBIT O.

General City Surplus Capital Funds.....		$36,536,526.06
Add—Surplus of Other Capital Funds—		
Watershed Extension.....	$ 45,888.40	
Construction of Storage Reservoir	2,598.64	
Docks and Ship Canal.....	4,047.36	
Track Elevation	6,902.78	
Additional Hospital Accommodations	123,694.63	
Alms House Construction...	29,547.37	
Passaic Valley Sewer.....	1,156,351.07	
Playground Construction ...	5,260.72	
Ashes and Refuse Station...	4,650.00	
Fire House—Vailsburg.....	2,000.00	
Paving Fund Surplus—under Chapter 217, Laws 1895..	2,451.36	
Street Opening Fund Surplus —under Chapter 121, Laws 1912	1,000,000.00	
Insurance Fund Surplus....	174,732.28	
Accumulations of Collections —Street Opening Assessments—Chapter 8, Laws 1909	16,521.67	
Total as per Exhibit O-1.....		2,574,646.28
Total as per Balance Sheet.....		$39,111,172.34

BALANCE SHEET—EXHIBIT O-1

BALANCE SHEET—EXHIBIT O-1

Statement of Revenues and Expenditures of Capital Funds for the Year 1913

Schedule No.	DESCRIPTION OF FUND	Balance Forward From Previous Year	Receipts	Transferred From Contingent and Other Accounts	Total	Transferred to Contingent	Expenditures for Year	Balance Forward per Exhibit O	Total
	Pavings under Chapter 217, Laws 1895	$ 7,358.96	$ 408,567.94		$ 415,926.90		$ 413,475.54	$ 2,451.36	$ 415,926.90
	Street Openings under Chapter 8, Laws 1909	7,016.73	34,780.45		41,797.18		41,797.03	.15	41,797.18
	Accumulation of Collections under Chapter 8, Laws 1909	71,202.05	73,914.12		145,116.17		128,594.65	16,521.52	145,116.17
	Street Openings under Chapter 121, Laws 1912		1,000,000.00		1,000,000.00			1,000,000.00	1,000,000.00
	Passaic Valley Sewer Construction	4,116.73	2,300,000.00		2,304,116.73		1,147,765.66	1,156,351.07	2,304,116.73
	Additional Hospital Accommodations	165,854.32	500,000.00		665,854.32		542,159.69	123,694.63	665,854.32
	Playground Construction	7,307.25			7,307.25		2,046.53	5,260.72	7,307.25
	Alms House Construction	42,197.36	160,000.00		202,197.36		172,649.99	29,547.37	202,197.36
	Truck Elevation	6,942.78			6,942.78		40.00	6,902.78	6,942.78
	Site for Fire House, Vailsburg	2,000.00			2,000.00			2,000.00	2,000.00
	Ashes and Refuse Station	4,650.00			4,650.00			4,650.00	4,650.00
	Insurance Fund Resources	159,749.11	14,983.17		174,732.28			174,732.28	174,732.28
59	Fifteenth Ward Engine House	2,035.13		8,290.98	10,326.11		10,326.11		10,326.11
60	Truck House No. 10			3,700.00	3,700.00	$ 37.00	3,663.00		3,700.00
61	Engine House No. 9	29,838.30		810.06	30,648.36		30,648.36		30,648.36
62	Engine House No. 1—Academy Street	22,813.41		7,994.44	30,807.85		30,807.85		30,807.85
63	Public Bath Construction	69,659.25	450.00	4,269.07	74,378.32		74,378.32		74,378.32
64	Truck House No. 9	10,225.20			10,225.20	2,137.37	8,087.83		10,225.20
65	Dock and Ship Canal	66,198.59			66,198.59		62,151.23	4,047.36	66,198.59
66	Construction New Storage Reservoir	2,143.64	455.00		2,598.64			2,598.64	2,598.64
67	Watershed Extension	46,814.08	102,661.79		149,475.87		103,587.47	45,888.40	149,475.87
		$ 728,122.89	$4,595,812.47	$25,064.55	$5,348,999.91	$2,174.37	$2,772,179.26	$2,574,646.28	$5,348,999.91
68	Public Schools Construction	$1,118,436.06	$ 15,090.93		$1,133,526.99		$ 910,262.34	$ 223,264.65	$1,133,526.99

Balance forward being Cash in the hands of the Custodian of School Money.

BALANCE SHEET—EXHIBIT O-1

CONTINGENT FUND.

Schedule No. 1.

RECEIPTS.

Revenue—

Licenses, Net	$663,913.26	
District Courts, Net	9,965.44	
Markets, Net	36,475.02	
Franchise Tax	78,940.75	
5% Trolley Tax	168,920.13	
City Clerk's Fees	10,593.03	
Excise Power of Attorney	1,090.00	
Searches	9,640.00	
Dog Pound Fees	578.00	
Refund Court Costs	8.59	
Police Court Fines	15,954.50	
Real Estate Arrears—Costs	8,176.40	
Personal Arrears—Costs	1,598.50	
Martin Act Costs	1,006.35	
Premium Temporary Loans	22.00	
		$1,006,881.97

Miscellaneous Receipts—

Sale of Property		54.00
Transferred from		
Number Nine Truck House	2,137.37	
Dog Pound	208.34	
Construction and Alteration of Buildings	1,053.36	
		3,399.07
		$1,010,335.04

DISBURSEMENTS.

Apportioned to—

Bridges	$7,550.48
Crosswalks	1,096.89
Public Lighting	59,655.52
Streets and Highways	67,665.94
Scavenger Contract	30,052.01
Repairs to Asphalt Streets	4,501.22
Wharves	879.52
Executive Department	11,649.12
Surveyor's Department	14,858.96
Sewers and Drainage	278.83
House Sewer Connections	2,638.81
Police Department	150,301.50
Fire Department	82,043.94
City Home	9,999.83
City Hospital	22,246.95
Public Health	4,760.08
Public Baths	3,104.41
Playgrounds	7,252.78
Shade Tree Commission	7,996.40
Free Public Library	7,100.00
City Salaries	210,797.57
City Sundries	35,333.90
Printing and Stationery	31,433.13
Elections	21,268.18
Street Improvement Costs	11,229.77
Miscellaneous Advertising	22,606.60
City Statistics	4,691.54
Inspecting Meters	326.67
Weights and Measures	12,772.99
Collecting Taxes	13,684.64
Poor and Alms	14,040.01
Public Buildings	19,016.09
Rent of Armories	1,000.00

Public Outings	959.63	
Public Band Concerts	904.45	
Fourth of July Celebration	318.97	
Martin Act Surplus	20.32	
Fifteenth Ward Engine House	8,290.98	
Number Ten Truck House	3,663.00	
Central Fire Station	7,994.44	
Number Nine Engine House	810.06	
Public Bath Construction	4,269.07	
Interest	16,999.81	
Cancelled Personal Tax	72,270.03	
		$1,010,335.04

CITY SALARIES.

Schedule No. 2.

RECEIPTS.

Transferred from Contingent.....$210,797.57

Mayor's Office—

Mayor	$ 10,000.00	
Secretary (1)	3,500.00	
Stenographer (1)	1,400.00	
Clerk (1)	1,500.00	
		$ 16,400.00

Law Department—

City Counsel	$ 9,000.00	
City Attorney	6,000.00	
Asst. City Attorney	3,000.00	
Clerks (3)	6,566.40	
Stenographers (3)	2,600.00	
Private Secretary (1)	800.00	
Messengers (2)	2,316.60	
		30,283.00

Comptroller's Office—

Comptroller	$ 5,000.00	
Clerks (13)	23,467.71	
Stenographer (1)	720.00	
Messenger (1)	1,305.34	
Private Secretary (1) 2½ mos.	312.50	
Pensioned (2) 2½ mos.	375.00	
		31,180.55

Auditor of Accounts Office—		
Auditor of Accounts.....$	4,500.00	
Clerks (8)	16,659.75	
Stenographer (1)	840.00	
		21,999.75
City Treasurer's Office—		
City Treasurer .....$	4,500.00	
Private Secretary (1)...	1,500.00	
Clerks (7)	11,560.21	
Pensioned (1) 2½ mos.	162.30	
		17,722.51
City Clerk's Office—		
City Clerk .....$	7,500.00	
Clerks (25)	34,678.28	
Stenographers (6)	6,213.28	
Inspector (1)	1,500.00	
Watchman (1)	498.39	
Supervisor Band Concerts	1,000.00	
Page Common Council..	100.00	
Messengers (2)	2,680.00	
		54,169.95
Aldermen—		
Aldermen (32)		15,907.19
Smoke Inspector's Office—		
Smoke Inspector (1)....$	1,800.00	
Clerk (1)	1,000.00	
		2,800.00
Criminal Courts—		
Judges (2) .....$	8,666.64	
Clerks (4)	7,242.98	
Interpreters (5)	4,425.00	
		20,334.62
		$210,797.57

CITY SUNDRIES.

Schedule No. 3.

RECEIPTS.

Transferred from Contingent	$ 35,333.90

DISBURSEMENTS.

Incidentals—		
Comptroller	$221.23	
City Clerk	678.56	
City Treasurer	656.46	
Smoke Abatement	52.90	
Law Department	83.21	
Martin Act Department	774.96	
Hospital Committee	14.00	
		$ 2,481.32
Expenses to Convention — Smoke Abatement		300.00
Expenses to Convention—League of Municipalities		1,560.00
Overtime — Clerks, Comptroller's Office		368.70
Temporary Clerks — Comptroller's Office		229.16
Temporary Clerk — City Treasurer's Office		189.52
Temporary Stenographer — Law Department		105.00
Services — Searchers Martin Act Department		1,067.15

Martin Act Searches		305.00
Delivering Arrears Bills		1,273.72
Stenographic Work		399.43
Compiling Ordinances		1,500.00
Making new Block Maps		925.00
Aldermanic Badges		175.00
Special Officers' Badges		6.00
Law Books		167.00
Copies of Laws		3.00
County Clerk's Fees		44.36
Court Costs		183.79
Refund—Costs Martin Act Sale, etc.		874.81
" —Tax Paid in Error		1.09
" —Police Court Fine		435.16
Taking Patients to Asylum		579.00
Examining Insane Patients		915.00
Premium Surety Bonds		1,217.50
Auto Hire		146.75
Architect's Fees, New Market		10,000.00
Test Holes, New Market		611.69
Engraving Bonds, New Market		285.00
Broker's Commission, New Market.		4,245.00
Legislative Committee—		
Expenses of Committee	$1,540.50	
Copies of Bills	375.00	
		1,915.50
Professional Services—		
Examination of Accounts—Board of Health	$1,888.80	
Examination of Accounts—Shade Tree Commission.	550.60	
Examination of Accounts—Comptroller's Office	384.95	
		$2,824.35
		$35,333.90

PRINTING AND STATIONERY.

Schedule No. 4.

RECEIPTS.

Transferred from Contingent	$31,433.13
Sale of Stationery—City Departments	1,095.68
	$32,528.81

DISBURSEMENTS.

Stationery	$ 14,941.17	
Binding Books	876.76	
City Maps	147.71	
Rubber Stamps	299.25	
City Directories	281.00	
Typewriters	353.10	
Inspecting and Repairing Typewriters	303.18	
Compiling Common Council Manuals	600.00	
Printing Common Council Manuals	1,532.00	
Printing Revised Ordinances	7,433.14	
Printing Annual Reports	4,648.86	
Expressage—Annual Reports	56.30	
Adding Machines	25.25	
Repairing Numbering Machines	7.50	
" Pencil Sharpeners	16.39	
Steel Tapes	15.60	
Peerless Check Writer	65.00	
Binding File of Papers	72.10	
Subscription to Railroad Guide	7.00	
Printing List Tax Sales	835.00	
Printing Circulars—Sale of Market Bonds	12.50	
		$32,528.81

ELECTIONS.

Schedule No. 5.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 21,268.18

DISBURSEMENTS.

Extra Services—Clerks, &c.	$ 6,461.34	
Services Storing Ballot Boxes	437.00	
Incidentals	529.15	
Printing Primary Ballots	9,941.95	
Stationery	110.86	
Making Maps	300.00	
Advertising	2,912.40	
Auto Hire	362.50	
Hardware, &c.	212.98	
		$ 21,268.18

CITY STATISTICS.

Schedule No. 6.

RECEIPTS.

Transferred from Contingent	$ 4,691.54

DISBURSEMENTS.

Recording, Filing, &c	$ 4,691.54

COLLECTING TAXES.

Schedule No. 7.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$101,000.00
Appropriation Supplemental, 1913	9,000.00
Appropriation from Contingent	4,684.64
	$114,684.64

DISBURSEMENTS.

Pay Roll—		
Tax Commissioners (5)	$17,500.00	
Secretary (1)	2,400.00	
Clerks (2)	2,520.00	
Asst. Assessors (25)	36,233.20	
Surveyor (1)	2,400.00	
Asst. Surveyors (6)	8,223.18	
Clerks to Surveyors (2)	2,958.30	
Tax Receiver (1)	3,500.00	
Clerks (9)	15,099.76	
Private Secretary (1)	1,200.00	
Pensioned (1)	562.50	
		$92,596.94
Temporary Clerks—Tax Receiver		14,450.00
Writing Tax Bills		3,049.20
Justice Fees		201.66
Final Returns—Personal Tax 1912		1,009.20
Incidentals—Tax Receiver		800.00
" —Board of Assessment & Revision		200.00
Advertising		509.40
Copy Auto Registration		62.74

Auto Hire	146.50	
Carriage Hire	9.00	
Expenses to Convention	600.00	
Expert Services Before State and County Board	1,050.00	
		$114,684.64

PUBLIC BUILDINGS.

Schedule No. 8.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 77,000.00
Appropriation Supplemental, 1913	8,000.00
Transferred from Contingent, 1913	11,016.09
Telephone Rebate	94.45
Sale Oil Barrels	12.00
" Paper	4.78
	$ 96,127.32

DISBURSEMENTS.

Pay Roll—

Custodian (1)	$ 2,500.00
Clerk (1)	1,320.00
Electrical Engineer (1)	1,800.00
Engineers (3)	3,944.33
Firemen (3)	3,000.00
Janitors (5)	5,000.00
Aerial Cleaners (2)	2,400.00
Elevator Attendants (6)	4,318.75
Oiler and Wiper (1)	900.00
Telephone Operators (3)	2,160.00

Watchmen (5)	4,243.01	
Window Cleaner (1)	912.00	
Cuspidore Cleaners (3)	2,161.93	
Cleaners — Engine Room (2)	1,502.00	
General Repairer (1)	900.00	
Cleaner—Toilets (1)	900.00	
Pensioned (1) 1 mo.	62.50	
Scrub Women (35)	17,073.07	
		$ 55,097.59
Removing Snow		50.00
Insurance		4,855.60
Coal		10.689.04
Waste		51.40
Engine Packing		362.76
Engine Supplies		604.42
Gas		314.71
Use Gas Regulator		22.00
Decorating Front of Building		585.00
Flags		74.70
Washing Towels		157.27
Towels		53.10
Janitors' Supplies		1,512.81
Paper Drinking Cups		575.00
Disinfectant		234.95
Ice		792.00
Seed, &c.		10.00
Sprinkling Streets		200.00
Repairing Locks		40.55
" Boiler		358.26
" Iron Work		104.98
" Elevators		230.74
" Lawns		172.77
" Engines		158.68
Steamfitting		630.00
Carpenter Work		615.50

Painting		41.50
Plumbing		2,758.51
Mason Work		1,227.55
Partitions		295.00
Electric Work		490.71
" Supplies		120.44
" Lamps		1,134.25
Paint, Oil, &c		216.32
Hardware		207.38
Lumber		45.79
Signs		54.50
Cartage		20.00
Furniture		2,912.29
Steel Cabinets		1,152.59
Steel Work—Vault		1,029.55
Awnings and Repairs		639.00
Rent Telephones		3,477.69
Telephone Arm		15.00
Time Cards		16.00
Public Building Committee—		
Auto Hire	$492.50	
Dinners	424.10	
		916.60
House City Cemetery—		
Repairing Roof	$131.69	
Plumbing	24.46	
		156.15
Centre Market—		
Repairing Roof, &c		120.17
Alms House—		
Mason Work	$ 89.40	
Plumbing	341.41	
Repairing Roof	46.50	
Steamfitting	49.19	
		526.50
		$ 96,127.32

MAINTENANCE DOG POUND.

Schedule No. 9.

RECEIPTS.

Appropriation Tax Ordinance, 1913		$ 4,500.00

DISBURSEMENTS.

Humane Society of New Jersey	$2,625.00	
Henry C. Forbell	1,666.66	
	$4,291.66	
Transferred to Contingent	208.34	
		$ 4,500.00

MISCELLANEOUS ADVERTISING.

Schedule No. 10.

RECEIPTS.

Transferred from Contingent	$ 22,606.60

DISBURSEMENTS.

Advertising Sale of Unpaid Taxes for 1911-1912	$11,274.70	
Advertising Sale Under Martin Act	1,426.98	
" Personal Arrears—1913	2,011.50	
" Sale of Market Bonds	7.38	
Miscellaneous Advertising — Common Council	7,264.52	
Advertising—Employment Bureau	621.52	
		$ 22,606.60

POLICE DEPARTMENT.

Schedule No. 11.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$810,000.00
Appropriation Supplemental, 1913	150,000.00
Transferred from Contingent, 1913	301.50
Refund on Insurance	67.35
Damages to Patrol Wagons, &c	333.28
Refund Salary	35.26
Photos Furnished U. S. Government	4.00
	$960,741.39

DISBURSEMENTS.

Pay Roll—

Commissioners (4)	$ 4,091.40	
Secretary (1)	2,600.00	
Surgeon (1)	2,200.00	
Asst. Surgeon (1)	1,500.00	
Clerks (8)	11,100.00	
Patrol Drivers (17)	18,587.29	
Matrons (8)	4,675.00	
Assistant Matron (1)	540.00	
Chief (1)	1,995.97	
Captains (10)	17,846.53	
Lieutenants (44)	77,696.58	
Sergeants (46)	68,864.95	
Patrolmen (553)	685,304.09	
Pensioned (2)	1,300.03	
1% of Salaries to Police Pension Fund, Chap. 247, Laws 1910	8,931.64	
		$907,233.48

Carfare—Captains and Detectives	1,488.15
Postage	75.00
Meals for Prisoners	1,533.75
Rent—Seventh Precinct	150.00
Draping	204.00
Dues—National Bureau Criminal Identification	25.00
Expenses to Convention	350.00
Provender	3,403.85
Horseshoeing	1,981.53
Wagon Repairs	532.75
Harness, &c.	847.17
Drugs	137.86
Veterinary Surgeon	284.75
Pasture of Horses	30.00
Oil, &c.	29.52
Gasolene	1,245.00
Auto Supplies and Repairs	3,507.14
Bicycle and Motor Cycle Supplies and Repairs	1,224.57
Motor Cycles	1,800.00
Bicycles	250.00
Auto Hire	88.00
Plumbing	1,355.82
Electric Work	574.18
Mason Work	42.60
Carpenter Work	839.77
Painting	1,065.00
Sidewalks Repairs	198.19
Whitewashing	42.75
Gas	207.07
Electric Light	3,438.81
Coal	2,427.20
Ice	228.40
Hardware	182.00
Janitor's Supplies	729.17

Disinfectant	1,074.50	
Stationery	2,311.89	
Typewriters, &c.	187.25	
Supplies—Bertillon Bureau	343.54	
City Directories	42.00	
Signs	129.86	
Advertising	90.72	
Furniture	893.19	
Towels	98.00	
Flags	54.00	
Cartridges, &c.	145.69	
Repairs—P. S. S.	2,049.66	
Maintenance P. S. S.	6,058.00	
Boxes P. S. S.	1,200.00	
Rent Telephones	1,389.21	
Time Service	45.00	
Badges	95.40	
Horses	300.00	
New Auto Patrols	5,750.00	
New Auto	400.00	
Gasolene Tank	331.00	
		$960,741.39

FIRE DEPARTMENT.

Schedule No. 12.

RECEIPTS.

Appropriation Tax Ordinance, 1913		$623,200.00
Appropriation Supplemental, 1913		78,500.00
Transferred from Contingent, 1913		3,543.94
Installing Fire Alarm Boxes		354.01
Repairing Hose		9.50
Use of Hose		7.00
Filling Extinguishers		23.75
Refunds		110.48
Sale of Badges, &c		64.75
Damages to Apparatus		135.00
Fire Dept. Pension Fund—		
Sale of Hose	$ 393.60	
" " Wagon	40.00	
" " Horses	400.00	
" " Junk	293.94	
" " Fire Line Badges	63.00	
Donation	.25	
Fees—Bureau of Combustibles	2,843.00	
		4,033.79
		$709.982.22

DISBURSEMENTS.

Pay Roll—	
Commissioners (4)	$ 4,091.40
Chief Engineer (1)	4,666.66
Deputy Chiefs (2)	6,000.00
Battalion Chiefs (5)	10,000.00

Secretary (1)	2,500.00	
Clerk (1)	1,600.00	
Stenographer (1)	900.00	
Office Assistant (1)	123.01	
Surgeon (1)	2,000.00	
Veterinarian (1)	2,000.00	
Inspector Combustibles— (1)	2,500.00	
Asst. Inspector Combustibles (5)	6,500.00	
File Clerk	900.00	
Superintendent Telegraph (1)	3,000.00	
Assistant Superintendent Telegraph (1)	1,800.00	
Foreman Lineman (1)	1,400.00	
Linemen (4)	4,459.15	
Operators — Fire Alarm System (7)	9,100.00	
Superintendent Repairs— (1)	1,600.00	
Assistant Superintendent Repairs (6)	4,875.09	
Blacksmith (1)	597.45	
Carpenter (1)	1,200.00	
Janitor (1)	900.00	
Stablemen (6)	5,055.53	
Retired and Pensioned— (7)	4,025.00	
Captains (38)	54,823.25	
Lieutenants (38)	49,224.78	
Firemen (302)	372,911.89	
Watchmen (2)	722.50	
		$559,475.71

Fire Dept. Pension Fund	4,033.79
Insurance	3,267.28
Expenses to Convention	600.00
Hire Band Convention	76.20
Auto Hire	14.50
Incidentals	167.33
Postage	221.92
Rent Telephones	2,572.25
Time Service	13.75
Telegraph Supplies	3,729.62
Fire Alarm Boxes	2,735.17
Badges	53.25
Buttons	78.00
Subscription to Papers	9.00
Stationery	2,287.92
Typewriters, &c.	166.35
Advertising	922.27
City Directories	12.00
Photo Supplies	10.75
Provender	20,103.81
Harness	2,104.37
Drugs	341.79
Use Horse Ambulance	60.00
Pasture of Horses	408.50
Horseshoeing	8,207.78
Apparatus Repairs	9,968.01
Auto Supplies	1,693.78
Gasolene	1,175.44
Oxygen Gas	87.30
Paint, Oil, &c	787.09
Sponges	394.82
Chamois	115.25
Brooms, &c.	600.00
Polish	102.00
Soap	372.53
Chemicals	531.52

Toilet Paper	217.50
Cartage, &c.	153.51
Lumber	1,698.14
Hardware	2,563.73
Disinfectant	554.05
Wood	260.00
Coal	9,830.28
Water	498.90
Electric Light	4,520.66
Flags	81.00
Gas	370.76
Ice	787.05
Furniture	4,626.61
Painting	1,518.22
Plumbing	4,522.76
Carpenter Work	1,501.37
Metal Ceiling	97.00
Artificial Stone Work	110.00
Mason Work	552.54
Electric Work	972.55
Horses	3,925.00
Auto Engines	8,500.00
Auto Hook and Ladder Trucks	11,500.00
Auto Hose Wagons	5,700.00
Automobiles (for Chiefs)	6,000.00
Hose	6,541.30
Nozzles	562.80
Turret Nozzles	1,750.00
Search Lights	270.00
Extinguishers	372.45
Ladders	150.00
Fire Department Supplies	1,187.77
Clipping Machine and Supplies	285.22
Cutting Outfit	300.00
	$709,982.22

CITY HOSPITAL.

Schedule No. 13.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$163,500.00
Appropriation Supplemental, 1913	20,000.00
Transferred from Contingent, 1913	2,246.95
Unclaimed Salaries	495.94
Sale of Bones	589.42
" " Junk	66.62
" " Belts	96.17
" " Anti-toxin	5.10
" " Thermometers	3.50
" " Dressings	42.68
Telephone Calls	49.00
Reporting Contagious Diseases	21.80
Miscellaneous	23.74
Use of Ambulance	14.00
	$187,154.92

DISBURSEMENTS.

Pay Roll—

General Administration—

Superintendent (1)	$2,700.00	
Asst. Superintendent (1)	1,524.00	
Night Superintendent (1)	720.00	
Bookeeper (1)	1,020.00	
Telephone Operator (1)	820.64	
Office Assistants (4)	2,231.86	
Historian (1)	720.00	
		$ 9,736.50

Matron (1)	1,020.00	
Cleaners (5)	1,291.79	
Porters (6)	1,694.21	
Waitresses (3)	746.94	
Linen Room (2)	516.00	
Store Room (1)	989.50	
Carpenter (1)	780.00	
Painter (1)	600.00	
Engineer (1)	1,353.26	
Firemen (4)	2,155.30	
Elevator Runners (4)	1,211.30	
		12,358.30

Kitchen—

Butcher (1)	600.00	
Baker (1)	754.00	
Chef (1)	960.00	
Kitchen Help (8)	2,325.44	
		4,639.44

Professional Care of Patients—

Supt. Training School (1)	1,524.00	
Asst. Supt. Training School (1)	1,200.00	
Night Supervisor (1)	720.00	
Operating Room Supervisor (1)	720.00	
Nurses (76)	8,637.00	
Orderlies (22)	5,338.00	
Ward Maids (16)	4,199.39	
Pharmacist (1)	1,048.50	
Radiographer (1)	1,000.00	
Pathologist (1)	1,524.00	
Asst. Pathologist (1)	540.00	
		26,450.89

Ambulance Service—		
Chauffeurs (3)		3,620.00
Training School—		
Cook (1)	360.00	
Housekeeper (1)	300.00	
Waitresses (4)	815.27	
Cleaners (3)	755.95	
Kitchen Help (2)	514.29	
		2,745.51
Laundry—		
Laundry Man (1)	840.00	
Laundry Help (15)	3,903.38	
		4,743.38
		$64,294.02
Incidentals		145.16
Incidentals Training School		30.70
Carfare		46.00
Postage		44.50
Cooking Lessons		60.00
Expressage		88.26
Subscription to Papers		15.00
Stationery		1,419.95
City Directory		6.00
Rent Telephones		822.85
Telegrams		5.77
Insurance		1,084.25
Premiums Surety Bond		32.00
Groceries		25,519.04
Yeast		170.70
Poultry		2,526.35
Meat		17,663.34
Fish		2,314.62
Milk and Cream		9,163.83

Vegetables	4,842.30
Ice Cream	234.00
Mineral Water	97.50
Ice	2,442.67
Laundry Supplies	1,428.99
Exterminating Roaches	140.00
Toilet Supplies	130.00
Household Goods	2,180.04
Blankets, &c.	2,310.67
Dry Goods	3,175.23
Clothing	956.54
Shoes	234.25
Furniture and Repairs	983.85
Fire Extinguishers Repairs	6.00
Operating Gowns	292.75
Caps	19.50
Surgical Supplies	7,096.99
Carbonic Acid Gas	71.00
X Ray Apparatus and Supplies	708.46
Surgical Instruments and Repairs	567.70
Drugs	5,386.71
Oxygen	87.00
Liquor	1,465.36
Rubber Goods	309.43
Alcohol	375.02
Pathological Supplies	330.82
Mason	327.22
Plumbing	1,321.40
Repairing Elevators	749.74
Repairing Awnings	95.40
Repairing Range	102.70
Electric Work and Supplies	34.78
Blacksmithing	25.60
Engine Repairs and Supplies	87.64
Lumber	207.13
Hardware	596.33

Maintenance Fire Alarm System....		206.25
Use Gas Regulators.....		133.98
Coal		9,514.44
Gas		1,220.71
Electric Lights		4,364.75
Electric Power		1,014.94
Auto Supplies and Repairs.....		1,457.21
Gasolene		580.93
Oil, &c.		290.21
New Auto Ambulance.....		3,000.00
Nurses Commencement—		
Singers .....$	76.00	
Refreshments	39.20	
Flowers	31.00	
Badges and Pins.....	120.00	
Engrossing Diplomas	25.00	
Coach Hire	53.00	
Hall Rent	40.00	
Incidentals	114.24	
		498.44
		$187,154.92

PUBLIC HEALTH.

Schedule No. 14.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$145,000.00
Appropriation Supplemental, 1913	4,760.08
Police Court Fines	349.75
Animal Permits	71.90
Chicken Permits	2,234.00
Chicken Slaughter House Permits	38.00
Ice Licenses	600.00
Ice License Plates	139.00
Milk Licenses	3,132.00
Milk Penalties	1,501.85
Plumbing Permits	4,116.00
Scavenger Permits	23.00
Sale Anti-Toxin	865.00
Sale Vaccine	163.42
Sale Grease, &c.	55.85
Sale Thermometers	112.00
Bacteriological Examinations	532.70
Rabies Treatment	135.00
Heating Upper Floors	300.69
Refund Salary	16.24
Telephone Calls	8.50
Refund Fees Reporting Contagious Diseases	95.30
Refund Petty Cash	11.24
Refund Electric Light Bill	41.38
	$164,302.90

DISBURSEMENTS.

Sanitary Department.

Pay Roll—		
Health Officer (1).....	$ 5,000.00	
Clerks (5)	6,662.56	
Stenographers (2).....	1,700.00	
Telephone Operator (1)..	540.00	
Chemist (1)	2,496.00	
Veterinarian (1)	2,524.00	
Meat Inspector (1).....	1,000.00	
Plumbing Inspectors (6).	9,320.00	
Food and Drug Inspectors (4)	5,448.00	
General Inspectors (20)..	25,473.00	
Janitor (1)	980.00	
Meteorologist (1)	120.00	
Supt. Bureau Contagious Diseases (1)	1,524.00	
District Physicians (17)..	5,960.00	
Pensioned (2)	1,000.00	
		$ 69,747.56
Expenses to Convention.....		490.00
Expenses Legislative Committee....		148.33
Inspecting Dairies		340.92
Expenses Watershed		145.70
Reporting Contagious Diseases.....		970.10
Rent Office		3,866.56
Coal		377.25
Ice		39.00
Electric Lights		518.34
Gas		1.67
Incidentals		82.48
Carfare		224.45
Postage		543.04

Expressage	6.15	
Drugs, &c.	144.68	
Milk Samples	73.85	
Buttons	10.00	
Badges	13.00	
Washing Towels	27.60	
Premium Surety Bonds	12.00	
Horse and Wagon Hire	2.00	
Advertising	634.32	
Mimeograph	80.00	
Typewriters and Repairs	268.28	
Stationery	2,737.77	
City Directories	12.00	
Subscription to Papers	13.50	
Flowers	6.50	
Sprinkling Streets	14.00	
Electric Work and Supplies	25.57	
Plumbing Work	19.10	
Hardware	29.16	
Janitor's Supplies	99.41	
License Plates	136.50	
Furniture	857.50	
Oil, &c.	26.64	
Auto Hire	27.00	
Auto Supplies	648.71	
Auto Licenses	9.50	
Rent Telephones—Office	$1,282.76	
Rent Telephones—D. D. Chandler	68.55	
	1,351.31	
Insurance	23.40	
Signs	65.00	
Cleaning New Building	59.40	
Milk Tester	10.23	
		$ 84,939.48

Dispensary.

Pay Roll—

Apothecary (1)	$2,300.00	
Asst. Apothecary (1)	1,900.00	
Dentist (1)	300.00	
Nurse (1)	720.00	
Janitor (1)	720.00	
Inspector Nurses (3)	2,152.50	
		$ 8,092.50
Drugs		2,417.55
Surgical Supplies		755.87
Liquor		268.65
Vaccine		455.00
Disinfectant		21.66
Supplies		62.98
Laundry Work		57.68
Ice		39.18
Coal and Wood		251.38
Electric Lights		19.10
Gas		11.82
Janitor's Supplies		12.88
Plumbing		25.30
Electric Supplies		10.83
Rent Telephone		95.95
Stationery		336.25
		$ 12,934.58

Disinfecting Corps.

Pay Roll—

Chief Inspector (1)	$ 1,700.00	
Inspectors (10)	12,000.00	
		$ 13,700.00
Disinfectant		615.44
Supplies		198.73
Stationery		88.50
		$ 14,602.67

Anti-Toxin.

Pay Roll—

Bacteriologist (1)	$4,500.00	
Asst. Bacteriologists (2)	3,124.00	
Collectors (2)	1,795.16	
Porter (1)	465.00	
Pathologist (1)	250.01	
		$ 10,134.17
Horses		495.00
Board of Horses		2,345.00
Guinea Pigs, &c.		274.25
Rabies Treatment		411.75
Stationery		397.95
Horseshoeing		141.50
Harness		2.50
Laboratory Supplies		1,285.44
Syringes		925.00
Postage		190.00
		$ 16,602.56

Tuberculosis Sanitarium.

Pay Roll—

Medical Director	$1,524.00	
Superintendent (1)	1,200.00	
Nurses (2)	1,320.00	
Clerk (1)	720.00	
Engineer (1)	1,000.00	
Cooks (2)	776.50	
Maids (4)	764.80	
Waitresses, &c. (3)	548.42	
Orderlies (2)	600.00	
Laundresses (3)	780.00	
Stableman (1)	420.00	
Helpers	360.00	
		$ 10,013.72

Cleaning Windows	50.00
Incidentals	20.61
Newspapers	40.79
Carfare	75.90
Stationery	34.15
Postage	32.50
Bread, &c.	744.39
Groceries	7,082.44
Meat	3,324.72
Milk	2,386.55
Poultry	816.09
Fish	203.80
Liquor	22.05
Vegetables	630.94
Ice Cream	3.90
Ice	532.03
Water	742.90
Coal and Wood	1,386.64
Electric Lights	1,024.64
Janitor's Supplies	47.21
Rent Telephones	139.35
Household Goods	319.27
Furniture	407.03
Dry Goods	96.83
Electric Work	9.24
Plumbing	150.37
Painting	9.00
Mason Work	80.00
Cleaning Vault	50.00
Lumber	42.23
Hardware	202.35
Oil, Etc.	117.15
Disinfectant	9.20
Surgical Supplies	953.40
Drugs	207.41
Harness	9.38

Horseshoeing	21.15	
Blacksmithing	76.98	
Provender	228.97	
Freight, Etc.	70.21	
Awnings	61.50	
		$ 32,476.99

Public Welfare.

Pay Roll—			
Director	$500.00		
Physician	125.00		
Clerk	377.75		
Nurses	994.00		
		$1,996.75	
Rent—Office		46.93	
Stationery		342.84	
Typewriter		50.00	
Maps		2.50	
Cartage		3.00	
Drugs, Etc.		7.40	
Supplies		62.52	
Carfare		22.95	
Postage		26.77	
Signs		4.00	
Scales		13.20	
Advertising		10.50	
Furniture		144.43	
Rent—Telephone		12.83	
			$ 2,746.62
			$164,302.90

RENTAL OF BEDS IN HOSPITALS.

Schedule No. 15.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 26,000.00

DISBURSEMENTS.

For rental of beds in Hospitals, and in Eye and Ear Infirmary, and for the support of babies committed to Day Nurseries, viz.:			
St. Michael's Hospital	10 beds	$2,500.00	
St. Barnabas Hospital	10 beds	2,500.00	
St. James' Hospital	10 beds	2,500.00	
German Hospital	10 beds	2,500.00	
Babies' Hospital	10 beds	2,500.00	
Beth Israel Hospital	10 beds	2,500.00	
Eye and Ear Infirmary	10 beds	2,500.00	
Home for Crippled Children	10 beds	2,500.00	
Eighth Ave. Day Nursery	10 beds	2,500.00	
Hospital for Women and Children	8 beds	2,000.00	
Branch Brook Day Nursery	2 beds	500.00	
Jewish Sisterhood Day Nursery	2 beds	500.00	
East Side Day Nursery	2 beds	500.00	
			$ 26,000.00

RENT OF ARMORIES.

Schedule No. 16.

RECEIPTS.

Transferred from Contingent, 1913	$ 1,000.00

DISBURSEMENTS.

First Regiment National Guard of New Jersey	$ 1,000.00

CONSTRUCTION & ALTERATION OF BUILDINGS.

Schedule No. 17.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 10,000.00
Fees, Filing Plans, Etc	25,670.20
	$ 35,670.20

DISBURSEMENTS.

Pay Roll—		
Superintendent (1)	$ 5,000.00	
Inspectors (14)	18,700.00	
Clerks (2)	2,420.00	
Stenographer (1)	750.00	
Electric Inspector (1)	2,500.00	
Asst. Electric Inspectors (2)	2,400.00	
		$ 31,770.00
Expenses to Convention	208.00	
Refund Filing Fee	274.50	
Incidentals	12.38	
Carfare	356.80	
Dinners	22.45	
Premium Surety Bond	15.50	
Shoring Building	15.00	
Insurance	157.31	
Automobile	1,200.00	
Auto Supplies and Repairs	514.72	
Auto License	7.50	
Auto Hire	27.00	
Subscriptions to Papers	26.00	
Photo Supplies	9.68	
		$ 34,616.84
Transferred to Contingent		1,053.36
		$ 35,670.20

WEIGHTS AND MEASURES.

Schedule No. 18.

RECEIPTS.

Transferred from Contingent	$ 12,772.99

DISBURSEMENTS.

Pay Roll—		
Sealer Weights and Measures (1)	$1,800.00	
Assistant Sealers (6)	7,935.00	
Private Secretary (1)	1,210.00	
		$ 10,945.00
Expenses to Convention		300.00
Board of Horses		600.00
Horseshoeing		148.50
Wagon Repairs		154.20
Clipping Horses		4.00
Harness		15.60
Wagon Hire		24.00
Auto Hire		85.50
Veterinary Surgeon		19.50
Test Weights, Etc		140.26
Seals		12.50
Branding Iron		10.50
Carfare		60.00
Postage		57.88
Goods for Evidence		64.85
Supplies		107.20
Photos		23.50
		$ 12,772.99

INSPECTING METERS.

Schedule No. 19.

RECEIPTS.

Appropriation Supplemental, 1913	$ 326.67
Public Service Gas Company, Salary of Superintendent	1,500.00
	$ 1,826.67

DISBURSEMENTS.

Pay Roll—		
Superintendent	$ 1,500.00	
Incidentals	188.17	
Expenses to Convention	85.00	
Apparatus and Supplies	53.50	
		$ 1,826.67

POOR AND ALMS.

Schedule No. 20.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 65,000.00
Appropriation Supplemental, 1913	5,000.00
Transferred from Contingent, 1913	9,040.01
Received for Board at Alms House	750.26
Received for Burials City Cemetery	22.00
Received for Interest on Alimony Fund	15.81
Estate of C. Seiske (W. H. McKenzie, Adm.)	124.97
	$ 79,953.05

DISBURSEMENTS.

Pay Roll—Alms House—

Clerk (1)	$1,200.00	
Matron (1)	700.00	
Physician (1)	800.00	
Nurse (1)	631.13	
Engineer (1)	800.00	
Watchman (1)	800.00	
Driver (1)	480.00	
Laundress (1)	217.40	
Cook (1)	420.00	
Organists (2)	100.00	
		$6,148.53
Incidentals		175.68
Carfare		17.75
Postage		17.50
Newspapers		120.40
Rent, Telephone		140.05
Advertising		53.90
Bread		2,142.85
Milk		1,559.49
Meat		6.045.12
Poultry		626.82
Vegetables		1,368.51
Fish		370.20
Groceries		6,616.46
Ice Cream		38.50
Tobacco		828.77
Coal		1,714.88
Ice		520.03
Drugs		714.80
Laundry Supplies		138.95
Electric Lights		72.43
Gas		981.83
Furniture		57.00

Blankets, Etc.	230.85	
Flags	31.00	
Household Goods	250.74	
Dry Goods	731.09	
Clothing	628.48	
Shoes	349.10	
Hats, Caps, Etc.	48.84	
Shoe Repairing Supplies	89.94	
Barber Supplies	6.50	
Examining Insane	5.00	
Taking Patients to Asylum	7.00	
Provender	301.71	
Horseshoeing	108.25	
Harness	50.40	
Blacksmithing	73.30	
Seed, Etc.	32.60	
Hardware	285.58	
Lumber	21.41	
Disinfectant	372.50	
Oil, Etc.	62.55	
Roach Extermination	37.50	
Extractor	175.00	
		$ 34,369.79

Out Door Poor—Pay Roll—

Overseer of Poor (1)	$ 2,500.00	
Asst. Overseer of Poor (1)	1,000.00	
Clerks (2)	2,386.67	
Visitors (4)	4,400.00	
	$10,286.67	
Bread	$12,315.10	
Coal	6,167.49	
Opening Graves	1,005.00	
Coffins, &c.	3,018.00	
Shrouds	225.00	

Grave Markers	140.00		
Money Relief	1,978.75		
Postage	27.50		
Carfare—Visitors	32.75		
Expenses Taking Feeble Minded Persons to Vineland, N. J.	11.00		
Advertising	53.90		
Burial at Hampton, N. J.	16.00		
		$ 35,277.16	
N. J. State Board of Children's Guardians		7,806.10	
Temporary Care of Poor Children		2,500.00	
			$ 79,953.05

CITY HOME.

Schedule No. 21.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 42,500.00
Appropriation Supplemental, 1913	9,999.83
Board of Inmates	430.00
Sale of Barrels	38.75
Sale of Cattle	27.00
Sale of Postage Stamps	1.98
Sale of Junk	15.90
Sale of Bread—Tuberculosis Sanitarium	757.61
Sale of Water—Tuberculosis Sanitarium	1,015.08
Sale of Fat and Hides	57.85
Sale of Fruit	36.60
Sale of Sundries	14.94

Repairing Shoes	31.70
Broken Dishes	4.91
Telephone Calls	11.87
Printing Department	797.78
	$ 55,741.80

DISBURSEMENTS.

Pay Roll—

Superintendent (1)	$ 2,400.00	
Matron (1)	408.78	
Accountant (1)	1,500.00	
Physician (1)	450.00	
Engineer (1)	889.45	
Fireman (1)	694.92	
Printer (1)	1,070.73	
Tailor (1)	939.84	
Shoemaker (1)	759.84	
Baker (1)	823.59	
Laundry Man (1)	764.84	
Farmer (1)	837.73	
Manual Training Instructor (1)	945.76	
Physical Training Instructor (1)	970.72	
Band Master (1)	480.00	
Teachers (3)	1,693.25	
Cottage Masters (3)	2,092.50	
Cottage Matrons (3)	977.50	
Janitor and Barber (1)	642.50	
Cook (1)	550.50	
Watchman (1)	847.50	
Parole Officer (1)	764.15	
Disciplinary Officer (1)	141.61	
Laborers (2)	1,216.07	
		$ 22,861.78

Delivering Lecture	15.00
Work for Caldwell News	170.50
Incidentals	153.52
Typewriting	50.00
Carfare	103.47
Postage	83.99
Insurance	1,525.00
Groceries	6,869.76
Meat	4,231.92
Fish	506.36
Fruit and Vegetables	357.19
Poultry	161.69
Yeast	327.95
Ice Cream, Etc.	105.90
Ice	501.37
Coal	3,748.29
Water	1,142.33
Electric Lights	949.00
Gas	91.70
Rent, Telephone	200.89
Provender	1,455.37
Harness	14.20
Clipping Horse	1.00
Horseshoeing	75.70
Blacksmithing	22.00
Repairing Musical Instruments	1.50
School Books	135.28
Household Goods	656.37
Furniture and Repairs	468.85
Steel Lockers	537.00
Awnings	24.12
Electric Work and Supplies	8.42
Plumbing and Steamfitting	405.61
Painting, Etc.	51.25
Carpenter Work	167.52
Repairing Oven	48.13

Iron Stairs and Platform	285.00	
Seed, Etc.	254.69	
Shoes	1,593.07	
Dry Goods	1,057.51	
Clothing	498.51	
Caps	204.14	
Athletic Goods	65.84	
Subscription to Papers	3.00	
Advertising	62.46	
Stationery	283.13	
Printer's Supplies	382.34	
Repairing Printing Press	23.48	
Cleaning Vault	60.00	
Fertilizer	71.80	
Hardware	630.29	
Lumber	226.85	
Paint, Oil, Etc	456.59	
Leather	723.94	
Engineer's Supplies	135.87	
Disinfectant	15.56	
Brick and Cement	91.72	
Freight and Expressage	199.31	
Drugs	61.77	
Surgical Supplies	24.75	
Dental Work	92.00	
Barber's Supplies	8.25	
		$ 55,741.80

FREE DENTAL CLINIC.

Schedule No. 22.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 10,000.00

DISBURSEMENTS.

Treasurer Free Dental Clinic	$ 10,000.00

Statement of Receipts and Disbursements Furnished by

Treasurer Free Dental Clinic.

RECEIPTS.

Balance, 1912	$ 4,070.60
Appropriation Tax Ordinance, 1913	10,000.00
Telephone Calls	1.50
Interest on Deposits, Etc	102.48
Discount	47.49
	$ 14,222.07

DISBURSEMENTS.

Salaries	$5,849.36	
Dental Supplies	895.57	
Light, Telephone, Etc	168.77	
Stationery	151.05	
Playground Commission, Janitor's Service, Heat, Etc., Newton Street	100.00	
Miscellaneous	280.25	
		$ 7,445.00
Unexpended Balance		6,777.07
		$ 14,222.07

PUBLIC OUTINGS.

Schedule No. 23.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 9,000.00
Appropriation Supplemental, 1913	959.63
Refund—Railroad Tickets	20.40
Refund—Freight	.35
	$ 9,980.38

DISBURSEMENTS.

Pay Roll—		
Matron (1)	$ 174.00	
Cooks (2)	202.99	
Laundress (1)	58.00	
Cleaners (2)	112.67	
Watchman (1)	80.00	
Life Saver and Special Officer (1)	80.00	
Instructor (1)	55.00	
Visitors (3)	369.99	
Laborer (1)	42.00	
Waitress (1)	63.82	
Med. Inspector (1)	130.45	
		$ 1,368.92
Hire Farming Implements		420.00
Railroad Fares		1,514.70
Incidentals		212.34
Insurance		240.30
Stationery		43.40
Rent, Telephone		10.30
Taxes		236.37
Carpenter Work		97.50
Painting		6.00
Electric Work		269.21
Plumbing		122.69

Hire Piano	25.00	
Talking Machine Records	4.50	
Flags	37.00	
Furniture	24.00	
Household Goods	516.06	
Bathing Suits	77.00	
Bathing Ropes	50.00	
Athletic Goods	73.04	
Playground Apparatus	413.40	
Lumber	129.40	
Hardware	99.17	
Disinfectant	15.60	
Oil, Etc.	27.89	
Bread	282.24	
Groceries	943.96	
Ice	121.19	
Fish	102.20	
Vegetables	98.01	
Milk	530.11	
Ice Cream	118.20	
Meat	800.57	
Electric Light	85.56	
Water	113.76	
Coal and Wood	66.20	
Provender	163.26	
Harness, Etc.	18.85	
Horseshoeing	28.49	
Wagon	130.00	
Fertilizer	35.00	
Seeds	44.79	
Mowing	5.00	
Cleaning Cesspool	10.00	
Freight and Expressage	15.95	
Horse and Wagon Hire	73.25	
Funeral Expenses	160.00	
		$ 9,980.38

STREETS AND HIGHWAYS.

Schedule No. 24.

Crosswalks Account Consolidated With Streets and Highways Account.

RECEIPTS.

Appropriation Tax Ordinance, 1913		$250,000.00
Appropriation Supplemental, 1913		67,665.94
Transferred from Contingent, 1913		1,096.89
Inspectors—		
Public Service Railway Co	$ 332.00	
Public Service Electric Co	1,248.00	
Public Service Gas Company	12.00	
New York Telephone Co	1,252.00	
Postal Tel. and Cable Co	136.00	
		2,980.00
Street Repairs		8,876.20
Street Openings		4.413.50
House Moving Fee		80.00
Use Steam Roller		225.00
Use Street Sprinkler		4.75
Use Horse and Carriage		470.83
Removing Street Obstructions		130.00
Unclaimed Wages		36.00
Refund		50.00
Paving Bay Ave. Pumping Station Yard		127.98
Paving City Dock		1,955.52
Laying Crosswalks		120.01
Carting for Lighting Department		10.20
Sale Motor Cycle		25.00
" Asphalt Scrapers		19.00

Sale Dead Horse	4.00
" Old Cart	15.00
" Barrels	2.50
" Horseshoe Pads	296.23
" Iron	112.57
" Stone	2,417.56
" Manure	25.00
" Confiscated Goods	6.50
	$341,166.18

DISBURSEMENTS.

Pay Roll (Monthly)—

Asst. Supt. (1) 3 mos.	$ 525.00	
Bookkeeper (1)	1,920.00	
Timekeeper (1)	1,500.00	
Foremen (14)	15,308.06	
Inspector Cuts, Etc. (1)	1,200.00	
Trolley Inspector (1)	1,900.00	
Asst. Trolley Inspector (1) 3½ mos.	273.00	
Supt. Repairs (1)	1,404.00	
Supt. Stables (1)	1,404.00	
		$ 25,434.06

Pay Roll (Weekly)—

Clerks	$ 4,160.00
Inspectors	4,478.40
Labor—General	141,244.63
Labor—Detail	2,188.75
Labor—Drivers	22,756.01
Hire Horses and Wagons	60,688.60
Engineer Steam Roller	916.75
Pavers	9,372.50
Rammers	2,481.90

Stablemen	10,389.08	
Watchmen	2,006.50	
Carpenter	419.99	
Painter	981.67	
Machinist	1,764.00	
Blacksmith	63.33	
		$263,912.11
Auto Hire		100.25
Inspector Track Paving		446.60
Incidentals—C. M. Shipman		143.13
Incidentals—Joseph Crawford		68.90
Carfare		100.30
Premiums Surety Bonds		87.50
Casualty Insurance		3,360.00
Coal and Wood		305.88
Advertising		406.71
Signs		90.48
Refunds		110.00
Rent, Stables Campfield Place		1,500.00
Rent, Sub-Stations		1,491.00
Brooms		2,871.03
Spindles Refilled		3,052.50
Hardware		1,665.73
Lumber		271.48
Street Repairs		966.83
Changing Curb Lines		471.03
Stone		2,830.38
Road Oil		2,961.15
Cement and Sand		1,422.01
Paving Brick		1,151.90
Motor Cycle Repairs		46.60
Electric Blowers		36.00
Scrubbing Machine		425.00
New Auto		450.00
Auto Supplies and Repairs		3,672.49
Auto Licenses		4.00

Board of Horses	286.00
Clipping Horses	7.00
Harness and Findings	517.54
Veterinary Surgeon	143.50
Hire Horse Ambulance	10.00
Drugs	124.66
Disinfectant	153.25
Provender	8,443.60
Blacksmithing	4,845.43
Horseshoeing	2,484.87
Repairing Steam Roller	316.10
Paint, Oil, Etc	339.26
Stationery	1,178.70
City Directory	6.00
Maps	65.90
Rubber Boots	105.45
Hose	375.00
Searches	25.00
Special Officer's Badges	25.00
Rent, Telephones	307.58
Night Watch	171.00
Electric Lights—Campfield Place	290.90
Electric Lights—Factory Street	80.60
Gas	340.65
Water Rent	166.50
Insurance	470.49
Plumbing	31.15
	$341,166.18

SCAVENGER.

Schedule No. 25.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$161,500.00
Appropriation Supplemental, 1913	30,000.00
Transferred from Contingent, 1913	52.01
	$191,552.01

DISBURSEMENTS.

Pay Roll—		
Inspector	$ 1,120.04	
Scavenger Contract	189,485.75	
Advertising	805.90	
Stationery	140.32	
		$191,552.01

PUBLIC LIGHTING.

Schedule No. 26.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$200,000.00
Appropriation Supplemental, 1913	50,000.00
Transferred from Contingent, 1913	9,655.52
Flaming Arcs—South Broad Street	6,419.37
Flaming Arcs—North Broad Street	4,693.94
Flaming Arcs—Market Street	5,457.13
Sale Old Lamp Posts	4.00
Sale Old Wagons	10.00
	$276,239.96

DISBURSEMENTS.

Pay Roll—		
Superintendent (1)	$2,004.00	
Repairman (1)	630.00	
		$ 2,634.00
Lighting Streets—Electricity		192,231.13
Lighting Streets—Gas		54,675.04
Flaming Arcs—Market Street		10,779.52
" " —North Broad Street.		6,487.23
" " —South Broad Street.		7,104.34
" " —City Hall		934.30
Provender		599.59
Horseshoeing		54.00
Drugs		2.00
Wagon Repairs		78.19
Veterinary Surgeon		3.00
Advertising		93.66
Stationery		58.78
Premium Surety Bond		25.00
Expenses to Convention		150.00
Installing Traffic Lamps		319.98
Cartage		10.20
		$276,239.96

SEWERS AND DRAINAGE.

Schedule No. 27.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 47,500.00
Appropriation from Contingent, 1913	278.83
Sewer Taps	18,365.00
Plumbers' Licenses	586.00
Shifting, Etc., Basin Connections	498.89
Relaying Sewer	22.68
Building Basins and Manholes	81.90
Board of Horse	275.00
Sale of Pipe	3.00
Sale of Iron	5.00
Sale of Manhole Covers	3.00
	$ 67,619.30

DISBURSEMENTS.

Pay Roll (Monthly)—

Supt. of Sewers (1)	$2,100.00	
Bookkeeper (1)	1,920.00	
Foremen (4)	3,956.56	
Chief Eng. Pump. Sta. (1)	1,308.00	
Engineer (1)	1,144.00	
Firemen (4)	4,160.00	
Watchman Meadow Brook Pumping Station (1)	180.00	
Pensioned (2)	1,350.00	
		$ 16,118.56

Pay Roll (Weekly)—		
Asst. Tap Inspector (1)	$ 903.33	
Eng. Pump. Station (1)	927.50	
Gate Tender (1)	813.00	
Labor—General	18,755.94	
Labor—Detail (2)	1,377.00	
Labor—Pump. Sta.	1,664.00	
Drivers	4,382.28	
Carpenter	30.00	
Stablemen (3)	2,210.00	
Horse and Wagon Hire	4.20	
Eng. Dredging Machine (1)	540.83	
Inspector (1)	122.00	
		31,730.08
Night Watch		57.00
Maintenance Joint Outlet Sewer		2,000.00
Incidentals		40.85
Rent, Telephone		172.07
Premium Surety Bond		25.00
Premium Casualty Bond		480.00
Stationery		200.30
Refund		60.00
Rent, Stables		1,000.00
Provender		2,002.14
Horseshoeing		482.95
Blacksmithing		336.40
Veterinary Surgeon		18.00
Clipping Horse		4.00
Harness and Repairs		168.65
Disinfectant		38.25
Auto License		2.00
Auto Supplies and Repairs		1,812.78
Rubber Boots, Etc.		93.25
Hose		294.60
Hardware		473.51

Sewer Buckets	335.00	
Coal	2,768.59	
Lumber	150.59	
Paint, Oil, Etc.	277.77	
Pipe, Brick, Cement, Etc.	307.82	
Basin Heads, Etc.	524.84	
Water Rent	1,088.50	
Electric Light	384.40	
Ice	58.19	
Plumbing	874.60	
Carpenter Work	369.27	
Repairing Streets	151.23	
Repairing Sewers	523.50	
Rubber Valves, Etc.	110.60	
Waste	27.68	
Repairing Engine, Etc.	1,858.97	
Repairing Rain Gauge	54.70	
Row Boat	24.00	
Flags	6.10	
Repairing Dredge	112.56	
		$ 67,619.30

HOUSE SEWER CONNECTIONS.

Schedule No. 28.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 2,000.00
Appropriation Supplemental, 1913	2,638.81
House Sewer Connections	16,745.40
House Sewer Assessments Collected by Comptroller	25,884.39
Board of Horse	300.00
	$ 47,568.60

DISBURSEMENTS.

Pay Roll (Monthly)—		
Clerk (1)	$ 1,140.00	
Rodman (1)	900.00	
		$ 2,040.00
Pay Roll (Weekly)—		
Clerk (1)	$ 780.00	
Foremen	4,784.00	
Laborers	20,587.63	
Drivers	752.08	
Pavers	27.28	
Stablemen	1,503.32	
		28,434.31
Standard Bitulithic Co., Laborers Filling Trenches		2,450.16
Incidentals		9.19
Carfare		130.03
Washing Towels		16.25
Refund		240.66
Pipe, Cement, Etc.		8,684.23
Sewer Markers		646.25
Street Repaving		797.83
Manhole Construction		24.85
Oil, Etc.		94.71
Hardware, Tools, Etc.		465.85
Lumber		100.40
Coal and Wood		35.20
Motor Cycle Supplies and Repairs		56.65
Provender		649.07
Harness		34.05
Blacksmithing		146.12
Horseshoeing		143.75
Veterinary Surgeon		4.00
Rent Stables		780.00
Rubber Boots		11.00

Electric Light	114.10	
Postage	9.78	
Water Rent	17.50	
Stationery	205.92	
Rent, Telephones	127.50	
Night Watch	78.00	
Drugs	3.15	
Premium Surety Bond	12.50	
Premium Casualty Bond	768.00	
Advertising	122.54	
Badges	25.00	
Whitewashing Stables	18.00	
Plumbing	67.38	
Electric Work	4.67	
		$ 47,568.60

REPAIRS TO ASPHALT STREETS.

Schedule No. 29.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 60,000.00
Appropriation Supplemental, 1913	4,501.22
Street Openings	1,378.00
Street Repairs	4,920.45
	$ 70,799.67

DISBURSEMENTS.

Pay Roll (Monthly)—

Inspector (1)	$1,150.00	
		$ 1,150.00

Pay Roll (Weekly)—

Foreman at Plant (1)	437.50
Kettlemen at Plant (2)	348.00
Engineer Steam Roller (1)	198.00

Laborers	6,835.36	
Rammers	247.80	
Drivers	24.92	
Hired Teams	2,750.68	
Carpenter	884.50	
Watchman	120.00	
		11,846.76
Incidentals		58.17
Maintenance Asphalt Paving 5-Year Contract		3,808.23
Repairs to Asphalt Streets by Contract		35,394.22
Asphalt		2,023.68
Cement		1,808.60
Oil		519.63
Stone		791.29
Coal and Wood		1,014.97
Stationery		20.37
Laboratory Supplies		55.00
Horseshoeing		104.75
Provender		600.51
Hardware		660.51
Veterinary Surgeon		5.00
Freight		42.53
Blacksmithing		24.40
Advertising		168.84
Asphalt Wagons		1,484.00
Steam Roller		1,975.00
Asphalt Mixing Plant		5,548.00
Corrugated Iron		387.63
Lumber		1,236.04
Sewer Construction		27.77
Water Service Connection		22.12
Fire Extinguishers		14.00
Brick		7.65
		$ 70,799.67

EXECUTIVE DEPARTMENT.

Schedule No. 30.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 25,000.00
Appropriation Supplemental, 1913	10,000.00
Transferred from Contingent, 1913	1,649.12
Refund Expenses to Convention	174.85
	$ 36,823.97

DISBURSEMENTS.

Pay Roll—		
Commissioners (5)	$ 15,000.00	
General Supt. (1)	4,000.00	
Chief Engineer (1)	7,500.00	
Dep. Chief Engineer (1)	3,500.00	
Acting Clerk (1)	1,675.01	
Secretary to President (1)	2,500.00	
Pensioned (1)	1,614.58	
	$ 35,789.59	
Stationery	116.71	
Rent, Telephone	34.30	
Auto Hire	9.00	
City Directory	6.00	
Incidentals	42.85	
Copy of Testimony	16.70	
Expenses to Convention	600.00	
Rent, Chairs	6.25	
Professional Services P. R. R. Case	150.00	
Incidentals P. R. R. Case	52.57	
		$ 36,823.97

SURVEYOR'S DEPARTMENT.

Schedule No. 31.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 10,000.00
Appropriation Supplemental, 1913	10,000.00
Transferred from Contingent, 1913	4,858.96
Engineer's Fees—Paving	13,917.60
Engineer's Fees—G. C. & F.	1,139.31
Engineer's Fees—Sewers	1,384.70
Engineer's Fees—Private Paving	258.39
Testing Asphalt	6.00
Testing Brick	96.00
	$ 41,660.96

DISBURSEMENTS.

Pay Roll—		
Engineer, Sewers (1)	$ 3,500.00	
Asst. Engineers, Sewers (5)	9,316.00	
Engineer, Streets (1)	3,000.00	
Asst. Engineers, Streets (9)	13,669.42	
Chemist (1)	1,800.00	
Clerks (3)	4,104.00	
Secretary Chief Engineer (1)	2,244.00	
	$37,633.42	
Temporary Stenographer	24.00	
Temporary Rodman	176.96	
Temporary Draughtsman.	170.53	
		$ 38,004.91

Typewriter	97.28	
City Directories	12.00	
Stationery	1,866.98	
Blue Prints	120.45	
Horseshoeing	50.00	
Board of Horse	300.00	
Blacksmithing	36.30	
Carfare	279.25	
Postage	52.44	
Auto Licenses	10.00	
Typewriting Supplies	35.50	
Filing Cabinets	130.40	
Paint, Etc.	19.04	
Engineer's Supplies	92.70	
Laboratory Supplies and Repairs	66.54	
Harness and Repairs	1.05	
Monument Boxes	159.26	
Rent, Telephones	30.67	
Repairing Rattler	34.65	
Casualty Insurance	192.00	
Premium Surety Bond	12.50	
Incidentals	55.04	
Clipping Horse	2.00	
		$ 41,660.96

SIDEWALKS.

Schedule No. 32.

RECEIPTS.

Balance, 1912	$ 1,008.20
Appropriation Tax Ordinance, 1913	2,000.00
Received from Assessments	3,737.01
	$ 6,745.21

DISBURSEMENTS.

Pay Roll—		
Superintendent (1)	$1,350.00	
Inspector (1)	996.00	
		$ 2,346.00
Horse and Carriage Hire		400.00
Stationery		97.00
Postage		18.70
Incidentals		2.00
Blacksmithing		15.45
Repairing Sidewalks—		
Winans Avenue		64.51
Hunterdon Street		126.79
Norfolk Street		727.89
South 11th Street		31.49
High Street		96.71
Waverly Avenue		110.64
Bergen Street		148.39
Pacific Street		67.44
Magazine Street		38.44

Warren Street	363.36	
Plane Street	149.22	
Colden Street	81.38	
Hoyt Street	92.88	
South 17th Street	43.01	
Fairmount Avenue	19.07	
Bleecker Street	41.02	
Boyden Street	87.31	
Sheffield Street	27.41	
North 7th Street	19.38	
Walnut Street	99.07	
Nesbitt Street	128.60	
Highland Avenue	20.46	
Watson Avenue	80.91	
Ridgewood Avenue	38.75	
Boston Street	28.37	
		$ 5,611.65
Unexpended Balance		1,133.56
		$ 6,745.21

BRIDGES.

Schedule No. 33.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 1,500.00
Appropriation from Contingent, 1913	7,550.48
Public Service Railway Company — Repairs Mulberry St. Bridge	141.70
	$ 9,192.18

DISBURSEMENTS.

Pay Roll (Weekly)—			
Carpenters	$ 50.01		
Laborers	319.29		
Drivers	91.28		
Watchman	13.00		
Pavers	184.00		
Rammers	40.50		
Hire Team	6.00		
		$ 704.08	
Building Mulberry St. Bridge		6,900.00	
Repairs Wall Bloomfield Ave. Bridge		528.07	
Wood Paving Blocks		321.40	
Cement, Etc.		62.80	
Lumber		536.70	
Iron Work		115.48	
Hardware		9.45	
Painting		12.00	
Stationery		2.20	
			$ 9,192.18

MAINTENANCE INCLINE PLANE.

Schedule No. 34.

RECEIPTS.

Appropriation Tax Ordinance, 1913.....	$ 1,200.00

DISBURSEMENTS.

D. L. & W. R. R., as per Contract.....	$ 1,200.00

CITY PLAN COMMISSION.

Schedule No. 35.

RECEIPTS.

Appropriation Tax Ordinance, 1913.....		$ 10,000.00
Telephone Calls		13.25
		$ 10,013.25

DISBURSEMENTS.

Salary Secretary	$2,000.00	
Salary Experts (2).....	3,200.00	
Services Draughtsman	551.46	
Services Enumerator	22.50	
Services Asst Engineer....	939.50	
Services Stenographer	218.00	
		$ 6,931.46

Rent, Office	600.00	
Photos, Maps, Etc.	455.35	
Stationery	166.43	
Rent, Telephone	137.05	
Postage	55.00	
Carfare, Etc.	177.51	
Advertising	21.56	
Office Furniture	90.23	
Dues—American Civic Association	5.00	
Hire Typewriter	8.00	
Incidentals	125.50	
Newspapers	11.58	
		$ 8,784.67
Unexpended Balance		1,228.58
		$ 10,013.25

WHARVES.

Schedule No. 36.

RECEIPTS.

Transferred from Contingent	$ 879.52
Rent City Dock	720.00
Wharfage	436.00
	$ 2,035.52

DISBURSEMENTS.

Pay Roll—		
Superintendent Wharves	$ 80.00	
Paving, Etc., City Dock	1,955.52	
		$ 2,035.52

SHADE TREE COMMISSION.

Schedule No. 37.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 44,000.00
Appropriation from Supplemental, 1913	7,996.40
Shade Tree Tax, 1913	8,007.47
Shade Tree Tax Arrears	2,279.66
Court Fines	72.05
Trees Set Out by Request	1,013.65
Sale of Tree Guards	77.31
" " Stakes	2.85
" " Flagging	9.90
" " Spraying Equipment	30.00
" " Tanks	16.00
" " Typewriter Desk	3.00
" " Old Barrels	3.80
" " Hose	8.30
" " Old Paper	.37
" " Scrap Iron	.10
" " Manure	20.00
Compensation—Damage to Truck	4.20
Compensation—Gas Killed Trees	67.00
Removing Trees—(Special)	4.30
Trimming Trees—(Special)	7.83
Removing and Replacing Trees—Sewer Work	90.00
Donation—Flower Bed—Clinton Park	20.00
Deposits to Safeguard Trees—House Moving	16.00
Comfort Station—Use Private Closets	136.70
	$ 63,886.89

DISBURSEMENTS.

Pay Roll (Monthly)—		
Secretary (1)	$ 2,204.17	
Forester (1)	1,900.00	
		$ 4,104.17
Pay Roll (Weekly)—		
Stenographers (2)	$ 1,636.00	
Clerks (2)	2,707.40	
Office Boy (1).....	261.13	
		4,604.53
Pay Roll (Weekly)—Park Maintenance—		
Arboriculturist (1)	$ 218.34	
Foreman (1)	200.58	
Asst. Foremen (5).....	1,335.71	
Laborers	8,608.91	
Hire Teams	387.77	
		10,751.31
Pay Roll (Weekly)—Planting and Maintaining Trees—		
Arborculturist (1)	$ 1,081.66	
Foreman (1)	780.09	
Asst. Foremen (5).....	2,500.61	
Laborers	10,972.37	
Team Hire	2,515.94	
		17,850.67
Pay Roll (Weekly)—Public Comfort Station—		
Attendants (5)		2,654.45
Caretaker at Barn.....		714.02
		$ 40,679.15

Professional Services — Landscape Architect	52.25
Refund	35.90
Postage	102.28
Incidentals	18.73
Carfare	23.85
Special Officers' Badges	32.00
Telephone Calls	1.85
Squirrel Food	3.55
Trees, Etc.	7,245.64
Fertilizer	538.31
Top Soil	5.00
Wire Cloth	1,159.25
Stakes	1,358.25
Tree Guards	165.00
Hardware	261.64
Lumber	7.85
Hose	92.50
Sand, Cemet, Stone, Etc	117.86
Oil, Paint, Etc	102.32
Spraying Material	580.94
Spraying Equipment	375.75
Tanglefoot	22.50
Cartage and Expressage	55.05
Auto Supplies and Repairs	809.75
Auto License	11.50
Garage Rent	150.00
Rent Storage Barn	300.00
Insurance	56.00
Flags, &c.	48.63
Painting Flag Pole	31.50
Painting	5.00
Electric Work	37.53
Repairing Band Stand	100.00
Repairing Benches	12.00
Plumbing Repairs	68.61

Clipping Horse		4.00
Provender		324.35
Repairing Wagons		180.67
Horseshoeing		69.25
Harness		24.60
Water Rent		107.18
Horse Hire		12.50
Repairing Tools		109.35
Stationery		640.89
City Directory		6.00
Maps		49.00
Typewriter		67.25
Advertising		169.20
Subscription to Papers		16.00
Fountain Clinton Park		650.00
Granite Work—Sidewalk, &c., Washington Monument		4,650.00
Laying Sidewalks		59.70
Public Comfort Station —		
Water Rent	$780.40	
Gas	43.14	
Electric Light and Power	623.30	
Coal	81.94	
Toilet Paper, &c.	146.93	
Disinfectant	89.45	
Towel Supplies	14.42	
Janitor's Supplies	128.89	
Plumbing	71.10	
Electric Work	99.44	
		2,079.01
		$ 63,886.89

PUBLIC MARKETS.

Schedule No. 38.

RECEIPTS.

Rent of Stands	$ 39,031.08
Country Market and Grounds	20,370.00
City Scales and Weighing Charges	303.20
Water Rent—Stands 27½, 29	54.59
Refund Salary	14.00
Refund Freight	1.02
	$ 59,773.89

DISBURSEMENTS.

Pay Roll—		
Market Clerk (1)	$2,400.00	
Asst. Market Clerk (1)	1,800.00	
Special Police (6)	7,665.00	
Sweepers (6)	4,513.50	
Pensioned (1)	638.75	
		$ 17,017.25
Electric Light		2,119.34
Water		454.00
Electric Work		71.62
Carpenter Work		93.41
Plumbing		138.53
Painting Roof		53.75
Repairing Iron Shutters		87.20
Repairing Scale		50.00
Removing Garbage		1,754.00
Insurance		241.14
Ice		14.40

Coal	38.25	
Hardware	54.41	
Brooms	66.33	
Rent Telephone	90.30	
Disinfectant	15.00	
Janitor's Supplies	6.00	
Washing Towels	8.25	
Incidentals	8.52	
Stationery	5.90	
Fee Books	14.50	
Gavel and Block	42.60	
Photos	66.00	
Postage	5.00	
Carfare	7.55	
Cleaning Office	120.00	
Dinners—Market Committee	366.75	
Flag	10.50	
Paint, Oil, &c.	23.55	
Sand	11.50	
Advertising	153.32	
Frames for Pictures	12.00	
Fire Extinguishers	78.00	
	$ 23,298.87	
Transferred to Contingent	36,475.02	
		$ 59,773.89

DEPARTMENT OF WATER.

Schedule No. 39.

RECEIPTS.

Balance, 1912		$ 113,277.00
Collections on Sale of Water—		
Metered Private Service	$922,832.42	
Unmetered Private Service	325,006.65	
Builders' Permits	9,948.17	
Hose Permits	2,572.50	
Street Sprinklers Permits	990.00	
Other Construction Work — Pavings, Sewers, &c.	833.40	
		1,262,183.14
5/8″ and 1″ Service	16,994.92	
Service Arrears	12,117.37	
Penalties and Fines	606.00	
Searches	4,433.00	
Rents—Real Estate	3,127.25	
Accrued Interest on Bonds	1,958.34	
Interest on Arrears	961.95	
Unclaimed Wages, &c.	192.47	
Miscellaneous	156.49	
		40,547.79
Sale of Meters	23,453.50	
Repairing Meters	3,838.96	
1½″ and Over Service	8,372.85	
Garage Charges to Other City Departments	6,889.77	
Township of Belleville—Laying Mains, &c.	4,953.99	
Changes in Location of Pipes	7,629.01	
Repairing Services, &c.	6,153.24	
Miscellaneous	138.16	
		61,429.48

High Pressure Bonds	50,000.00	
Main Extension Bonds	200,000.00	
		250,000.00
		$1,727,437.41

DISBURSEMENTS.

ACCOUNTING DIVISION.

Pay Roll.	Monthly.	Weekly and by Bill.	Total.
Accountant	$ 2,406.25	.....	$ 2,406.25
Cashier	2,400.00	.....	2,400.00
Searcher	1,800.00	.....	1,800.00
Bookkeeper	1,500.00	.....	1,500.00
Assessor	2,300.00	.....	2,300.00
Asst. Assessor	1,900.00	.....	1,900.00
Clerks	18,245.46	$ 6,956.84	25,202.30
Vehicle Record Clerk	489.90	.....	489.90
Tel. Operators	1,770.00	.....	1,770.00
Messengers	.....	273.00	273.00
Turn Off Collectors	.....	6,627.74	6,627.74
Stenographers	.....	1,200.00	1,200.00
	$ 32,811.61	$ 15,057.58	$ 47,869.19

ENGINEERING DIVISION.

Pay Roll.	Monthly.	Weekly and by Bill.	Total.
Eng. and Supt.	$ 3,500.00	.....	$ 3,500.00
Asst. Engineer	2,750.00	.....	2,750.00
Clerks	7,116.00	.....	7,116.00
Rodmen	.....	$ 2,852.20	2,852.20
Stenographer	.....	998.40	998.40
	$ 13,366.00	$ 3,850.60	$ 17,216.60

METER DIVISION.

Pay Roll.	Monthly.	Weekly and by Bill.	Total.
Supt. Inspectors	$ 1,800.00	.....	$ 1,800.00
Clerks	2,804.00	.....	2,804.00
Inspectors	20,091.35	$ 16,604.79	36,696.14
Meter Repairers	2,900.00	10,431.00	13,331.00
	$ 27,595.35	$ 27,035.79	$ 54,631.14

SERVICE DIVISION.

Pay Roll.	Monthly.	Weekly and by Bill.	Total.
Foreman	$ 1,512.00	.....	$ 1,512.00
Plumbers	2,640.00	$ 7,935.95	$ 10,575.95
Tappers	.....	2,100.27	2,100.27
	$ 4,152.00	$ 10,036.22	$ 14,188.22

MAINTENANCE NEW WATER SUPPLY.

Pay Roll.	Monthly.	Weekly and by Bill.	Total.
Inspectors	$ 900.00	.....	$ 900.00
Keeper Gate House	1,020.00	.....	1,020.00
Supt. Water Shed	1,200.00	.....	1,200.00
Keeper Intake Gate House	756.00	.....	756.00
Keeper Oak Ridge Reservoir	660.00	.....	660.00
Keeper Rain Gauge	120.00	.....	120.00
Telephone Operator	120.00	.....	120.00
Searcher	2,800.00	.....	2,800.00
Keeper Cedar Grove Res.	1,020.00	.....	1,020.00
Asst. Keeper Cedar Gr. Reservoir	540.00	.....	540.00
Supt. Conduits	1,512.00	.....	1,512.00
	$ 10,648.00		$ 10,648.00

Repair Men—Pipe Line..	$ 798.00	$ 798.00
Laborers—Pipe Line....	3,833.69	3,833.69
Laborers—Watershed	35,197.60	35,197.60
Foreman Watershed	1,449.00	1,449.00
Mason, Watershed.....	455.20	455.20
Carpenter, Watershed...	8,555.75	8,555.75
Team Hire, Watershed..	11,627.59	11,627.59
Reservoir Keepers	1,088.00	1,088.00
Engineer	933.00	933.00
	$ 63,937.83	$ 63,937.83

GENERAL.

Pay Roll.	Monthly.	Weekly and by Bill.	Total.
Reservoir Keepers.....	$ 1,104.00	$ 3,253.40	$ 3,357.40
Chauffeur	1,500.00	.....	1,500.00
Foremen	.....	9,007.53	9,007.53
Laborers	.....	166,286.33	166,286.33
Repair Men	.....	15,829.25	15,829.25
Pavers	.....	5,165.90	5,165.90
Rammers	.....	1,534.26	1,534.26
Drivers	.....	4,875.42	4,875.42
Watchmen	.....	7,961.08	7,961.08
Flushers	.....	1,560.00	1,560.00
Garage Help	.....	1,092.57	1,092.57
Stablemen	.....	2,946.48	2,946.48
Harness Repairer	.....	858.00	858.00
Carpenter	.....	1,174.33	1,174.33
Mason	.....	1,357.53	1,357.53
Supt. Cartage	.....	1,222.00	1,222.00
Hired Teams	.....	5,520.79	5,520.79
	$ 2,604.00	$229,644.87	$231,248.87
	$ 91,176.96	$349,562.89	$440,739.85

Sinking Fund—Water Bonds....	$260,989.37
Interest—Water Bonds.....	520,317.50
Taxes	10,515.77
Refunds	530.27

Casualty Insurance	4,800.00
Insurance	310.53
City Directories	42.00
Stationery	6,798.89
Maps, Charts, &c.	158.92
Adding Machine and Repairs	996.08
Addressograph Supplies	280.25
Advertising	369.73
Repairing Typewriters	103.50
Laboratory Supplies	460.52
Inspecting Pipe	831.85
Iron Pipe	118,750.72
Pig Lead	12,067.55
Lead Pipe	5,322.52
Hydrants, &c.	6,976.02
Valves, &c.	10,851.39
Manhole Frames	203.70
Stop Boxes	4,026.25
Solder	1,039.79
Curb and Stop Boxes	3,726.40
Meters and Repairs	22,820.40
Wooden Plugs and Wedges	126.08
Disinfectant	44.13
Chemicals	737.95
Paint, Oil, &c.	2,637.05
Hardware	7,754.07
Hose	112.98
Lumber	4,711.02
Sewer Connections	346.72
Brick and Cement	1,467.60
Paving	7,504.69
Repairing Stone Crusher	187.12
Provender	2,522.38
Horseshoeing	1,079.17
Blacksmithing	2,792.65
Drugs	41.55

Veterinary Surgeon	140.85
Harness, &c.	507.09
Clipping Horses	10.50
Hire Steam Roller	408.00
Electric Work and Supplies	80.84
Mason Work	2,949.49
Painting	6.75
Slate Roofing	1,642.45
Carpenter Work	50.00
Iron Work	451.68
Searches	85.60
Electric Lights	246.10
Gas	138.84
Coal	1,279.49
Ice	29.12
Freight	577.30
Rubber Boots	435.15
Trees, Plants, &c.	1,030.95
Fertilizer	171.00
Furniture	221.73
Fire Extinguishers	14.00
Rent Telephones	353.01
Night Watch	148.00
Motor Cycles	243.80
Auto Supplies and Repairs	8,498.78
Gasolene	3,177.56
Auto Hire	58.00
Auto Licenses	15.75
Automobile	450.00
New Auto Truck	1,544.00
Premium Surety Bonds	102.50
Professional Services — Examination of Accounts	6,738.63
Water Rent—Belleville	70.64
New Chlorine Feeding Machine	400.00
New Air Compressor	484.39

New Simplex Tube Recorder....	495.00	
Expenses to Convention.....	1,139.28	
Legislative Com. Expense.....	422.15	
Expenses Watershed	237.95	
Carfare	863.40	
Dues to Associations.....	25.00	
Postage	393.09	
Sub. to Papers.....	31.75	
Barn Rent	50.00	
Pressing Hay	276.21	
License Plate Holders.....	275.00	
Judgment, &c., Widman Case....	10,144.47	
Professional Services — Electrolysis	37.50	
Drawing Plan — Sewer Disposal Plant	100.00	
Incidentals—		
Cashier	672.73	
Chief Engineer	70.28	
Engineer and Supt.	83.00	
Assistant Engineer	49.50	
		$1,514,223.32
Unexpended Balance		213,214.09
		$1,727.437.41

PLAYGROUNDS.

Schedule No. 40.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 27,000.00
Appropriation Supplemental, 1913	5,000.00
Transferred from Contingent, 1913	2,252.78
Sale of Safe	18.00
Sale of Junk	11.00
Sale of Gas Stove	5.00
Sale of Horse	90.00
Sale of Old Buildings	140.00
Refund Telephone Charges	.70
Refund Sale of Pipe	26.65
Free Dental Clinic (Janitor's Services, &c.)	100.00
	$ 34,644.13

DISBURSEMENTS.

Pay Roll—		
Secretary (1)	$3,093.37	
Stenographer (1)	650.00	
Inspector (1)	1,322.50	
Instructors (2)	1,229.35	
Directors (7)	5,373.77	
Play Leaders (12)	4,927.22	
Play Helpers (3)	1,570.85	
Laborers	3,166.50	
Repair Man	580.50	
Watchman	97.00	
		$ 22,011.06

Professional Services—Examination Accounts	102.22
Expenses — J. L. Mason — Moving from Brookline to Newark	293.00
Expenses to Convention	140.55
Rent—Oliver Street	240.00
Rent—Lafayette Street	382.34
Rent—Belleville Avenue	401.98
Rent—Prince Street	137.36
Rent—School Auditoriums	24.00
Insurance	190.50
Furniture	87.64
Awnings	253.00
Electric Lights	411.90
Gas	48.22
Hardware	775.77
Lumber	287.45
Paint, &c.	370.80
Flag Pole	37.50
Cement, &c.	142.38
Disinfectant, &c.	37.50
Janitor's Supplies	51.00
Plumbing	758.30
Carpenter Work	739.16
Metal Ceilings	105.44
Painting	35.00
Mason Work	124.50
Repairing Roofs	237.40
Repairing Sidewalks	45.00
Grading, &c.	746.50
Flowers and Plants	10.00
Electric Work and Supplies	504.44
Signs	102.50
Auto Supplies, &c.	444.94
New Automobile	495.00
Auto License	10.00

Auto Hire	62.18
Provender	61.56
Horseshoeing	23.25
Blacksmithing	7.75
Hire Horse and Wagon	276.50
Cartage	69.55
Dry Goods	95.68
Mimeograph	80.00
Typewriter	50.05
Stationery	346.26
Maps	5.00
Photo Supplies	98.08
City Directory	6.00
Advertising	53.34
Rent Telephones	262.15
Coal	186.98
Water	216.57
Athletic Goods	1,174.14
Flags, &c.	83.45
Badges and Medals	70.31
Camping Outfit	125.00
Hire Costumes, &c.	20.80
Phonographs	209.10
Repairing Pianos, &c.	22.50
Carfare	46.45
Postage	81.30
Incidentals	19.35
Subscription to Papers	2.00
Special Officers' Badges	5.00
Drugs	36.98
Expenses—Municipal Dances	62.50
	$ 34,644.13

PUBLIC BAND CONCERTS.

Schedule No. 41.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 6,000.00
Transferred from Contingent, 1913	904.45
	$6,904.45

DISBURSEMENTS.

Band Concerts	$ 6,244.00	
Carfare, Singers, &c.	555.00	
Hire Trolley Cars	8.00	
Electric Lights	21.30	
Lunches City Home Band	20.00	
Incidentals	56.15	
	$	6,904.45

MEMORIAL DAY OBSERVANCE.

Schedule No. 42.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 1,780.63
Public Schools—For Flowers	60.81
	$ 1,841.44

DISBURSEMENTS.

Badges	$ 45.90	
Music	710.00	
Flags and Grave Markers	173.84	
Stationery	20.00	
Carriage Hire	245.00	
Cartage	44.00	
First Regt. N. G. of N. J.	200.00	
Flowers	91.00	
Carpenter Work	78.20	
Services—Orator, Singers, &c.	100.00	
Services—Janitor	10.00	
Decorating	25.00	
Incidentals	98.50	
		$ 1,841.44

FOURTH OF JULY CELEBRATION.

Schedule No. 43.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 1,500.00	
Appropriation Supplemental, 1913	318.97	
		$ 1,818.97

DISBURSEMENTS.

Rent Theatre	$ 100.00	
Badges	110.25	
Decorating	75.00	
Stationery	121.75	
Hire Chairs	12.00	

Hire Auto	53.00	
Hire Piano, Morning Celebration	6.00	
Hire Singers, &c., Morning Celebration	280.00	
Music, Morning Celebration	85.00	
Ushers, Morning Celebration	54.00	
Band Concerts	606.00	
Flags	74.00	
Incidentals	241.97	
		$ 1,818.97

PUBLIC BATHS.

Schedule No. 44.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 11,000.00
Appropriation Supplemental, 1913	3,000.00
Transferred from Contingent, 1913	104.41
Rent, 279, 281 Morris Avenue	682.00
Hire Towels, &c.	1,999.55
Unclaimed Salary	8.00
	$ 16,793.96

DISBURSEMENTS.

Pay Roll—

Superintendents (4)	$2,409.08
Asst. Superintendents (2)	1,000.00
Matrons (4)	678.50
Engineers (4)	1,437.50
Firemen (5)	1,262.50
Inspector (1)	626.17

Helpers (2)	102.00		
Attendants (6)	1,438.00		
Pensioned (1)	100.00		
Laborers	1,596.50		
		$ 10,650.25	
Plumbing		934.17	
Carpenter Work		108.00	
Coal and Wood		1,705.60	
Painting, &c.		55.00	
Hardware		400.38	
Washing Towels, &c.		739.03	
Soap		361.30	
Electric Lights		205.00	
Gas		7.92	
Paint, Oil, &c.		188.49	
Furniture		82.33	
Repairing Skylight		107.48	
Stationery		20.00	
Sheets, &c.		494.97	
Towels		385.40	
Rubber Pads		24.45	
Rent Telephone		12.90	
Signs		10.00	
Electric Supplies		73.48	
Engineer's Supplies		99.50	
Incidentals		63.10	
Insurance		55.20	
Drugs		10.01	
			$ 16,793.96

LICENSES.

Schedule No. 45.

RECEIPTS.

Liquor Licenses—

298	Retail Licenses.....	$400.00	$119,200.00	
1088	Retail Licenses.....	450.00	489,600.00	
12	Wholesale Licenses..	500.00	6,000.00	
34	Wholesale Licenses..	550.00	18,700.00	
19	Bottler's Licenses....	150.00	2,850.00	
23	Bottler's Licenses....	200.00	4,600.00	
644	Transfers	10.00	6,440.00	
1	Club License.....	350.00	350.00	
1	Club License.....	400.00	400.00	
				$648,140.00
815	Peddler's Licenses.....		$ 5.50	4,482.50
728	Vender's Licenses		10.00	7,280.00
1	Meat Peddler License.....		20.00	20.00
789	Cartmen Licenses		5.00	3,945.00
22	Hackmen's Licenses		10.50	
1	Hackman's License		10.00	241.00
7	Hack Driver's Licenses.....		5.50	38.50
67	Taxicab Licenses		10.50	
4	Taxicab Licenses		10.00	743.50
44	Taxicab Driver's Licenses.....		5.50	242.00
100	Junk on Foot Licenses.....		10.50	1,050.00
126	Junk Dealer's Licenses.....		15.00	1,890.00
45	Junk Shop Licenses.....		25.00	1,125.00
54	Bill Distributor's Licenses.....		2.00	108.00
4	Bill Poster's Licenses.....		25.00	100.00
38	Auctioneer's Licenses		50.00	1,900.00
12	Pawnbroker's Licenses		150.00	1,800.00

30	Employment Agency Licenses	25.00	750.00
3	Lodging House Licenses	1.00	3.00
84	Dance Hall Licenses	2.00	168.00
16	Organ Grinder's Licenses	10.50	168.00
16	Theatre Licenses	350.00	5,600.00
	Shows and Exhibitions		19,817.34
	Street Car Licenses		7,386.07
			$706,997.91

DISBURSEMENTS.

Pay Roll—

Excise Commissioners (4)	$4,000.00	
Excise Inspectors (2)	3,600.00	
		$ 7,600.00
License Inspector (1)	$1,716.60	
Asst. License Inspectors (3)	3,503.73	
		5,220.33
		$ 12,820.33

Excise—

Advertising Applications for Licenses	3,182.00
Incidentals	153.70
Postage	27.00
Auto Hire	27.00
Stationery	408.00
Typewriting	12.00
Badges	154.00
County Clerk's Fees	10.00

License—

Postage	27.00
Board of Horse	275.00
Harness, &c.	16.70
Carriage Repairs	42.65
Horseshoeing	42.50

License Plates	183.61	
Badges	283.30	
Hardware	2.52	
Fire Department Pension Fund	25,417.34	
	$ 43,084.65	
Transferred to Contingent	663,913.26	
		$706,997.91

DISTRICT COURTS.

Schedule No. 46.

RECEIPTS.

Fees, &c., First District Court	$ 16,343.45
Fees, &c., Second District Court	11,073.04
	$27,416.49

DISBURSEMENTS.

Pay Roll—

Judges (2)	$8,000.00	
Clerks (2)	4,000.00	
Asst. Clerks (5)	4,633.55	
Sergeant-at-Arms (2)	817.50	
	$ 17,451.05	
Transferred to Contingent	9,965.44	
		$ 27,416.49

ART, SCIENCE AND INDUSTRIAL MUSEUM.

Schedule No. 47.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 15,000.00

DISBURSEMENTS.

Treasurer Art, Science and Industrial Museum	$ 15,000.00

PUBLIC SCHOOL MAINTENANCE.

Schedule No. 48.

Balance Jan. 1, 1913	$ 402,270.21
Tax Ordinance Appropriation, 1913	1,288,232.00
State Appropriation	2,025,978.66
Interest on Sayre Fund	240.00
Interest on Deposits	8,064.13
From R. D. Argue, Secretary	8,990.41
Truancy Fine	2.00
	$3,733,777.41

DISBURSEMENTS.

Warrant Drawn on Custodian of School Moneys	$2,709,954.59	
Unexpended Balance	1,023,822.82	
		$3,733,777.41

TECHNICAL SCHOOL.

Schedule No. 49.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 20,000.00

DISBURSEMENTS.

Treasurer Technical School	$ 20,000.00

FREE PUBLIC LIBRARY.

Schedule No. 50.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$108,108.00
Transferred from Contingent, 1913	7,100.00
	$115,208.00

DISBURSEMENTS.

Treasurer Free Public Library, 1913	$115,208.00

Itemized Statement of Receipts and Disbursements Furnished by the Trustees of the Free Public Library.

RECEIPTS.

Balance, 1912		$ 561.58
Appropriation Tax Ordinance, 1913		108,108.00
Transferred from Contingent, 1913		7,100.00
Interest on Deposits	$ 186.25	
Fines	5,221.92	
Duplicate Collection	5,589.16	
Non-Residents	138.50	
New Cards	.60	
Reserves	33.12	
Lost Books	326.66	
Damages, Books	144.45	
Telephone Calls	18.68	
Use of Lecture Hall—Lantern, &c.	24.00	
Novel Lists	12.83	
Young People's Lists	6.21	

Art Lists	.95	
Reading for Pleasure	11.93	
Newark Museum Association, for Services, &c.	3,392.97	
Clark Thread Co. on Account Branch No. 2	113.75	
Sales "The Newarker"	1,187.24	
Miscellaneous	93.05	
Sale—Paper Stock	54.10	
Sale—Books, &c.	94.00	
Sale—Atlas Case	35.00	
Refund	3.00	
Damages to Scale	6.20	
Bequest—Wm. P. Young Estate	500.00	
		17,194.57
		$132,964.15

DISBURSEMENTS.

Pay Roll—

Librarian's Office	$7,775.31
Asst. Librarian's Office	3,679.33
General Office	962.15
Catalog Department	3,362.55
Technical Department	3,091.78
Lending Department	7,105.15
Fiction Department	1,976.64
Registration Department	2,017.19
Art Department	4,564.92
Children's Department	1,362.24
School Department	2,937.22
Binding Department	1,865.92
Exhibition Department	975.81
Telephones	454.27
Sundays and Holidays	261.00

Branches and Stations	2,636.58	
Branch No. 1	3,058.74	
Branch No. 2	295.00	
Branch No. 3	1,588.45	
Branch No. 4	2,859.61	
Branch No. 5	1,032.91	
Branch No. 6	947.14	
Janitors	7,351.82	
Engineers	4,781.10	
Elevators	684.58	
		$ 67,627.41
Books		15,304.62
Art Books, Pictures, &c.		830.88
Binding		5,621.45
Periodicals—Main Library		1,457.77
Periodicals—Branches and Schools		371.39
Postage—General		1,023.40
Postage—Branches		137.00
Postage—Lending Department		280.16
Catalog Department, Incidentals		255.00
Trolley Carfares		360.00
Expressage, &c.		733.00
Rent Telephones		405.22
Janitor's Supplies		719.57
Cleaning Windows		300.00
Water and Ice		396.55
Building Repairs and Alterations		1,763.85
Furniture and Repairs		2,131.01
Insurance		668.83
Coal		5,312.67
Water for Boiler		257.13
Oil, Waste, &c.		284.87
Electric Lamps		327.19
Carting Ashes		166.00
Engineer's Supplies		122.61
Repairing Boilers, &c.		319.34

Repairing Engines, Dynamos, &c.		86.66
New Boilers		2,465.58
New Elevators		4,943.00
Gas		319.05
Printing		472.61
Printing Lists and Reports		238.75
Printing "The Newarker"		2,025.83
Stationery		1,145.39
Lantern Operator		15.00
Legal Expenses		407.36
Incidentals		660.88
Miscellaneous		1,562.45
Dues and Membership		119.25
Delivery Stations—Deliveries		534.00
Delivery Stations—Incidentals		49.50
Delivery Stations—Keepers		1,039.66
Branch Deliveries		769.50
Branch No. 1—		
Rent	$ 330.00	
Light	50.05	
Incidentals	179.83	
		3,529.88
Branch No. 2 —		
Incidentals		8.15
Branch No. 3—		
Rent	$1,200.00	
Light, &c.	467.18	
Incidentals	47.22	
		1,714.40
Branch No. 4—		
Rent	$1,380.00	
Light, &c.	205.43	
Incidentals	211.88	
		1,797.31

Branch No. 5—			
Rent	$ 720.00		
Light	303.83		
Incidentals	40.44		
		1,064.27	
Branch No. 6—			
Rent	$ 150.00		
Light, &c.	56.20		
Incidentals	103.38		
		309.58	
Branch High School		8.50	
			$132,463.48
Unexpended Balance			500.67
			$132,964.15

SINKING FUND AND INTEREST.

Schedule No. 51.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$905,600.00
Accrued Interest—Hospital Bonds	7,083.35
	$912,683.35
Collections on Assessments—Mill Brook Sewer —to be applied to Vailsburg Sewer Bond Sinking Fund	355.73
	$913,039.08

DISBURSEMENTS.

Commissioners of the Sinking Fund of 1864, Sinking Fund and Interest on the Following:

	Interest.	Sinking Fund.	Total.
City Improvement Bonds	$ 60,000.00	$ 30,000.00	$ 90,000.00
High School Bonds	10,700.00	10,500.00	21,200.00
Street Opening Bonds.	4,000.00	3,500.00	7,500.00
Free Library Bonds	13,750.00	7,000.00	20,750.00
Public School Bonds	275,048.00	83,482.00	358,530.00
City Hall Bonds	52,500.00	30,000.00	82,500.00
City Hospital Bonds	40,208.35	12,000.00	52,208.35
Track Elevation	52,880.00	19,720.00	72,600.00
Vailsburg Sewer Bonds	6,750.00	3,355.73	10,105.73
Refund Corporate Bonds	8,200.00	10,250.00	18,450.00
Vailsburg School Bonds	1,445.00	1,500.00	2,945.00
Corporate Bonds	41,200.00	36,050.00	77,250.00
Fire and Police Bonds.	14,000.00	7,000.00	21,000.00
Dock and Ship Canal Bonds	8,000.00	2,000.00	10,000.00
Bath House Bonds	5,000.00	2,500.00	7,500.00
Playground Bonds	3,000.00	1,500.00	4,500.00
Passaic Valley Sewer Bonds	44,800.00	11,200.00	56,000.00
	$641,481.35	$271,557.73	$913,039.08

Note: See Department of Water for Sinking Fund and Interest on Water Bonds.

INTEREST ON TEMPORARY LOANS, CHAPTER 8, LAWS 1909.

Schedule No. 52.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 6,731.26
Interest Collected on Assessments	12,501.58
	$ 19,232.84

DISBURSEMENTS.

Interest on Temporary Loans	$ 17,956.26
Unexpended Balance	1,276.58
	$ 19,232.84

INTEREST.

Schedule No. 53.

RECEIPTS.

Transferred from Contingent	$ 16,999.81
Paving Assessments	48,390.04
Paving Assessments, Chapter 217, Laws 1895	11,946.34
Sewer Assessments	14,932.29
Grading, Curbing and Flagging Assessments	13,356.13
Street Opening Assessments	3,829.97
Sidewalk Assessments	452.12
House Sewer Connections Assessments	1,023.56
Shade Tree Assessments	198.44
Deposits in Banks	44,810.76
Real Estate Arrears	77,208.10
Personal Arrears	6,210.21
Tax Certificates	656.60
Leases for Taxes	721.10
Accrued Interest on Temporary Loans	854.36
	$241,589.83

DISBURSEMENTS.

Temporary Loans	$210,525.40	
Temporary Loans, Chap. 217, Laws 1895	29,846.22	
Trust Funds	678.00	
Assessments Refunded	138.61	
Real Estate Arrears Refunded	4.40	
Interest Refunded	397.20	
		$241,589.83

ASSESSMENT DEFICIENCY—SEWERS.

Schedule No. 54.

RECEIPTS.

Appropriation Tax Ordinance, 1913 ..... $9,733.08

DISBURSEMENTS.

City's share on the following Sewers:	
Quitman Alley	$ 380.65
Clinton Annexation Sec. 4	267.11
McWhorter Street and Johnson Avenue	4,169.45
Weequahic Outlet	39.60
Elm Road, Gotthart Street Storm Water	634.09
Ferry Street and Bonykamper Avenue	823.25
Leonard Place Sewer	41.35
Miller Street	43.20
Patterson Street	66.00
Searing Street	39.10

Runyon Street	634.60	
Elder Place	56.35	
Greenwood Lake R. R.	573.38	
Merchant Place	122.58	
Nye Avenue	343.10	
Adams St. Storm Water	701.25	
Coeyman Street	314.32	
		$9,249.38

Assessments cancelled on the following Sewers:

East Branch Intercepting	$ 114.70	
Broad, Vanderpool and Wright Street	14.90	
Elm Road and Gotthart Street	244.80	
Fourteenth Street	56.10	
Peddie Street	13.20	
Hamburg Place and Ferry Street	40.00	
		483.70
		$9,733.08

ASSESSMENT DEFICIENCY—PAVINGS.

Schedule No. 55.

RECEIPTS.

Appropriation Tax Ordinance, 1913	$ 17,116.11

DISBURSEMENTS.

City's share on the following Pavings:

Bloomfield Avenue	$8,088.94	
Woodside Avenue	313.21	
Belmont Avenue	188.20	
Hunter Street	614.39	
Essex Court	238.67	
Quitman Alley	671.30	
Hillside Avenue	40.86	
Kipp Street	1,402.22	
Alpine Street	295.09	
Grant Avenue	51.53	
Lawton Street	103.76	
Bryant Street	279.14	
Wright Street	2,130.99	
Coeyman Street	138.67	
Academy Street	1,503.50	
		$ 16,060.47

Assessments cancelled on the following Pavings:

Wright Street	$ 62.00	
Rose Street	185.00	
Austin Street	47.76	
Frelinghuysen Avenue	135.52	
Mercer Court	260.00	
South 15th Street	15.36	
Clover Street	182.00	
Belmont Avenue	168.00	
		1,055.64
		$ 17,116.11

ASSESSMENT DEFICIENCY—PAVINGS—CHAPTER 217, LAWS 1895.

Schedule No. 56.

RECEIPTS.

Appropriation Tax Ordinance, 1913.....$112,292.50

DISBURSEMENTS.

City's share on the following Pavings:

Clifton Avenue .....$	1,017.95
North 13th Street.....	264.72
Runyon Street	1,830.87
Sherman Avenue	4,221.75
Vincent Street	387.19
Bigelow Street	2,113.76
Concord Street	4,582.78
Clifton Avenue	2,293.92
Fifth Street	902.92
Mapes Avenue	654.05
Madison Avenue	7,710.34
Fourteenth Avenue	2,532.65
Lincoln Avenue	273.84
Montclair Avenue	3,195.71
Ogden Street	4,047.52
Scheerer Avenue	272.09
Van Buren Street	295.08
Delancy Street	1,868.17
South Fourteenth Street.....	4,488.07
South Street	2,798.88
Market Street	17,323.22
Tillinghast Street	447.89
Custer Avenue	958.00
Malvern Street	5,871.64
South Seventeenth Street.....	12,761.99

Vernon Avenue	553.96
Cypress Street	102.87
Ridge Street	2,627.21
Warren Street	12,240.62
Beverly Street	166.49
Columbia Avenue	528.75
Calumet Street	431.45
Voorhees Street	218.63
Clinton Place	9,069.56
Shepard Avenue	793.30
Fabyan Place	2,444.66
	$112,292.50

STREET IMPROVEMENT CHARGES AND ADVERTISING.

Schedule No. 57.

RECEIPTS.

Transferred from Contingent	$ 11,229.77
Preliminary Costs	11,889.18
Court Fees	6,063.00
Maps and Clerkships	4,799.00
Court Costs	1,011.04
Advertising	4,900.00
	$ 39,891.99

DISBURSEMENTS.

Pay Roll—

Assessment Commissioners (3)	$4,500.00	
Clerks (4)	6,483.06	
		$ 10,983.06

Advertising	21,823.35	
County Clerk's Fees	1.68	
Searches	2,864.90	
Appraising	3,250.00	
Auto Hire	621.50	
Auctioneer's Fees	77.50	
Photos	120.00	
Surveying	150.00	
		$ 39,891.99

COUNTY COLLECTOR.

COUNTY TAX.

Schedule No. 58.

RECEIPTS.

Gross amount City Ratables		$394,301,194.00
Less Net Amount Deducted as Provided by Chapter 57, Laws 1910		55,798,549.00
		$338,502,645.00
Tax Rate for County	.4610	
State School Tax	.2877	
	.7487	
$338,502,645.00 x .7487 =		$ 2,534,369.30
Balance Due on 1912 Tax		546,973.52
		$ 3,081,342.82

DISBURSEMENTS.

Paid County Collector on Account 1912 Tax.	$ 546,973.52
Paid County Collector on Account 1913 Tax.	1,034,369.30
	$ 1,581,342.82
Due County on 1913 Tax	1,500,000.00
	$ 3,081,342.82

FIFTEENTH WARD ENGINE HOUSE.

(Mt. Prospect Avenue.)

Total Cost

Schedule No. 59.

RECEIPTS.

From Sale Old Burying Ground, 1911	$ 12,200.00
Transferred from Contingent, 1912	20,197.50
Transferred from Contingent, 1913	8,290.98
	$ 40,688.48

DISBURSEMENTS.

Purchase of Land	$ 5,000.00	
Advertising	118.44	
Searches	54.00	
Mason Contract	13,621.00	
Carpenter Contract	8,722.00	
Iron Work	2,750.00	
Roofing, Etc.	2,125.00	
Plumbing	3,735.00	
Painting	619.00	
Electric Work	407.00	
Heating	1,241.00	
Lighting Fixtures	193.70	
Bronze Tablet	92.00	
Architect's Fees	2,010.34	
		$ 40,688.48
Amount Expended 1911		$ 5,170.08
Amount Expended 1912		25,192.29
Amount Expended 1913		10,326.11
		$ 40,688.48

TRUCK HOUSE NUMBER TEN.

(Lyons Avenue and Bergen Street.)

Schedule No. 60.

RECEIPTS.

Transferred from Contingent		$ 3,700.00

DISBURSEMENTS.

Purchase of Land	$3,600.00	
Searches	63.00	
	$ 3,663.00	
Transferred to Contingent	37.00	
		$ 3,700.00

NUMBER NINE ENGINE HOUSE.

(Summer Avenue.)

Total Cost.

Schedule No. 61.

RECEIPTS.

Transferred from Contingent, 1912	$ 30,000.00
Transferred from Contingent, 1913	810.06
	$ 30,810.06

DISBURSEMENTS.

Advertising	$ 161.70	
Surveying	16.00	
Building Permit	45.00	
Mason Contract	23,964.00	
Heating Contract	3,952.00	
Electric Contract	940.00	
Architect Fees	1,731.36	
		$ 30,810.06
Amount Expended 1912		$ 161.70
Amount Expended 1913		30,648.36
		$ 30,810.06

NUMBER ONE ENGINE HOUSE.

(Academy Street.)

Total Cost.

Shedule No. 62.

RECEIPTS.

From Sale of Old Burying Ground, 1911	$ 75,000.00
From Contingent, 1913	7,994.44
	$ 82,994.44

DISBURSEMENTS.

Purchase of Land	$ 25,000.00	
Broker's Commission	250.00	
Appraising	50.00	
Condemnation Commissioners	75.00	
Court Costs	3.05	
Advertising	255.10	
Building Permit	63.00	
General Contract	52,822.65	
Architect's Fees	3,200.64	
Lighting Fixtures	1,275.00	
		$ 82,994.44
Amount Expended 1911		$ 25,249.87
Amount Expended 1912		26,936.72
Amount Expended 1913		30,807.85
		$ 82,994.44

NUMBER NINE TRUCK HOUSE.

(Avon Avenue.)

Total Cost.

Schedule No. 63.

RECEIPTS.

From Sale of Old Burying Ground	$ 42,862.63

DISBURSEMENTS.

Land	$ 5,050.00	
Searches	45.00	
Appraising	50.00	
Condemnation Commissioners	105.00	
Advertising	243.18	
Building Permit	50.00	
Architect's Fees	2,112.70	
Mason Contract	22,793.00	
Carpenter Contract	7,140.00	
Plumbing Contract	2,430.00	
Heating Contract	1,222.00	
Painting	785.00	
Electric Work	599.75	
Lighting Fixtures	237.00	
		$ 42,862.63
Expended 1911		$ 6,368.13
Expended 1912		28,406.67
Expended 1913		8,087.83
		$ 42,862.63

MONTGOMERY STREET BATH HOUSE.

Total Cost.

Schedule No. 64.

RECEIPTS.

Proceeds from Sale of Bonds	$125,000.00
Transferred from Third Ward Bath House	164.48
Transferred from Contingent, 1913	4,269.07
Rent	46.00
Sale of Old Buildings	450.00
	$129,929.55

DISBURSEMENTS.

Purchase of Land	$ 25,500.00	
Option on Land	100.00	
Searches	117.95	
Condemnation Commissioners	165.00	
Appraising	50.00	
Stationery	279.50	
Advertising	168.78	
Building Fence	39.43	
Taxes	34.99	
Water Rent	10.50	
General Contract	96,206.04	
Architect	6,272.36	
Inspector	985.00	
		$129,929.55

DOCKS AND SHIP CANAL.

Schedule No. 65.

RECEIPTS.

Balance 1912		$ 66,198.59

DISBURSEMENTS.

Pay Roll	$ 161.99	
		$ 161.99
Purchase of Land		59,787.33
Searches		1,813.50
Blue Prints		36.00
Motor Boat		325.00
Lumber		14.00
Hardware		13.41
		62,151.23
Unexpended Balance		4,047.36
		$ 66,198.59

DEPARTMENT OF WATER FUND FOR CONSTRUCTION STORAGE RESERVOIR.

Schedule No. 66.

RECEIPTS.

Balance 1912	$ 2,143.64
Rents from Real Estate, Etc	455.00
	$ 2,598.64

DISBURSEMENTS.

Unexpended Balance	$ 2,598.64

WATERSHED EXTENSION—CHAPTER 301, LAWS 1908.

Schedule No. 67.

RECEIPTS.

Balance, 1912	$ 46,814.08
Proceeds from Sale of Bonds	100,000.00
Refund on Purchase of Property	2,661.79
	$149,475.87

DISBURSEMENTS.

Purchase of Property	$102,387.47	
Unexpended Balance	47,088.40	
		$149,475.87

PUBLIC SCHOOL CONSTRUCTION.

Schedule No. 68.

RECEIPTS.

Balance Jan. 1, 1913	$1,118,436.06
Interest on Deposits	13,960.91
From R. D. Argue, Secretary	1,130.02
	$1,133,526.99

DISBURSEMENTS.

Warrants Drawn on on Custodian of School Moneys	$910,262.34	
Unexpended Balance	223,264.65	
		$1,133,526.99

CITY DISPENSARY AND BOARD OF HEALTH BUILDING.

(William and Plane Streets.)

Schedule No. 69.

Proceeds Sale of Bonds (Additional Hospital Bonds) $143,550.10

DISBURSEMENTS.

Purchase of Land	$ 52,222.81	
Building Permit	82.50	
Advertising	205.02	
Mason and Carpenter Contract	69,961.80	
Plumbing Contract	5,885.00	
Heating Contract	2,787.00	
Electric Work	1,885.00	
Elevators	3,015.00	
Painting	950.00	
Architect's Fees	5,198.47	
Gas Lighting—Fixtures, Etc.	1,357.50	
		$143,550.10

CONSOLIDATED REPORT OF THE COMPTROLLER AND CITY TREASURER TO AUDITOR OF ACCOUNTS OF CASH RECEIPTS AND DISBURSEMENTS DURING THE YEAR 1913

Balance as per Treasurer's Report, Jan. 1, 1913		$1,310,978.35
Less amount charged in 1913, on account 1912		1,272,778.39
Balance as per Auditor's Ledger as of Jan. 1, 1913		$ 38,199.96
Receipts during the year as follows:		
PROCEEDS FROM SALE OF BONDS—		
Market Bonds	$ 17,500.00	
Department of Water Bonds	250,000.00	
Watershed Extension Bonds	100,000.00	
City Hospital Bonds	500,000.00	
		867,500.00
TEMPORARY LOAN BONDS—		
General	$10,718,000.00	
Street Openings, Chapter 8, Laws 1909	420,000.00	
Street Openings, Chapter 121, Laws 1912	3,000,000.00	
Pavings, Chapter 217, Laws 1895	1,410,000.00	
Alms House Construction	600,000.00	
Passaic Valley Sewer Construction	3,375,000.00	
		19,523,000.00
Accrued Interest on Permanent Bonds		7,083.35

TAXES—		
1912	$ 684,109.76	
1913	6,075,187.08	
Leases for Taxes	662.60	
		6,759,959.44
INTEREST—		
Special Temporary Loan Bonds—Street Openings	$ 2,917.98	
Deposits	44,810.76	
Assessments	81,086.53	
Tax Arrears	84,057.56	
Shade Tree	201.20	
Leases for Taxes	721.10	
		213,795.13
Accrued Interest on Temporary Loans		854.36
ASSESSMENTS—		
Pavings	$ 372,915.02	
Pavings—Chapter 217, Laws 1895	251,275.44	
Sewers	76,233.63	
Grading, Curbing and Flagging	79,621.42	
Street Openings	49,949.06	
Sidewalks	3,737.01	
House Sewer Connections	25,884.39	
Openings, Chapter 8, Laws 1909	73,914.12	
Shade Trees—1908	5.36	
" " 1909	70.73	
" " 1910	199.86	
" " 1911	185.39	
" " 1912	1,805.40	
" " 1913	8,007.47	
		943,804.30
Shade Tree Commission		1,603.36

CONSOLIDATED REPORT OF THE COMPTROLLER AND CITY TREASURER TO AUDITOR OF ACCOUNTS OF CASH RECEIPTS AND DISBURSEMENTS DURING THE YEAR 1913—*Continued.*

REAL ESTATE TAX CERTIFICATES—		
1903	$ 2.35	
1904	459.97	
1905	20.10	
1906	37.78	
1910	1,020.55	
		1,540.75
REAL ESTATE ARREARS—		
1903	$ 23.79	
1905	277.85	
1906	153.38	
1907	387.53	
1908	1,139.46	
1909	2,050.00	
1910	5,892.92	
1911	101,815.09	
1912	786,146.26	
		897,886 28

PERSONAL ARREARS—		
1905 and prior	$ 120.70	
1906	89.76	
1907	143.09	
1908	260.91	
1909	618.95	
1910	1,422.83	
1911	6,816.46	
1912	72,864.77	
		82,337.47
SALE OF PROPERTY—		
308-314 So. 12th St., less 10% already paid	$ 31.50	
270-272 Seventeenth Ave., less 10% already paid	22.50	
		54.00
Department of Water		1,364,160.41
Storage Reservoir		455.00
Watershed Extension		2,661.79
City Home		3,241.97
City Hospital		1,407.97
Fire Department		4,738.28
Police Department		439.89
Public Health		14,542.82
Playground Commission		391.35
City Plan Commission		13.25
Executive Department, Board of Street and Water Commissioners		174.85
Bridges		141.70
Crosswalks		12.00
Public Lighting		16,584.44

CONSOLIDATED REPORT OF THE COMPTROLLER AND CITY TREASURER TO AUDITOR OF ACCOUNTS OF CASH RECEIPTS AND DISBURSEMENTS DURING THE YEAR 1913—*Continued.*

Sewers and Drainage	19,840.47
House Sewer Connections	17,045.40
Streets and Highways	22,391.35
Wharves	1,156.00
Public Baths	2,689.55
Repairs to Asphalt Streets	6,298.45
Surveyor's Department	360.39
Poor and Alms	913.04
Public Buildings	111.23
Construction and Alteration of Buildings	25,670.20
Markets	59,773.89
Memorial Day Observance	60.81
Printing and Stationery	1,095.68
District Courts	27,416.49
License	706,997.91
Assessments collected on Private Sewer	453.83
Redemption under Martin Act	125,420.82
Surplus under Martin Act	409.27
Surplus and Deficiency	10.00
Searches	9,640.00
City Clerk's Fees	10,593.03
Excise Power of Attorney	1,090.00
Police Court Fines	15,954.50
Public Outing	20.75

Public Service Railway—5% gross receipts	168,920.13
Public Service Gas Company—Salary Inspector of Gas Meters	1,500.00
Franchise Tax	78,940.75
Sale of old buildings—Street Openings	570.00
Sale of old buildings—Bath House	450.00
Reserve Fund	59,844.93
Humane Society	578.00
Premium on Temporary Loan Bonds	22.00
Refund Court Costs	8.59
Martin Act Costs	983.05
Real Estate Costs	8,149.95
Personal Arrears—Costs	1,598.50
Real Estate Tax Certificates—Costs	17.81
Shade Tree Assessments—Costs	12.16
Sidewalk Assessments—Costs	19.78
	$32,123,612.83

CONSOLIDATED REPORT OF THE COMPTROLLER AND CITY TREASURER TO AUDITOR OF ACCOUNTS OF CASH RECEIPTS AND DISBURSEMENTS DURING THE YEAR 1913—*Continued.*

Expended as follows:

	Paid in 1913	Paid in 1914, on Acct. 1913	Total Paid on Acct. 1913
TEMPORARY LOAN BONDS—			
General	$11,769,000.00		$11,769,000.00
Street Openings—Chapter 8, Laws 1909	520,000.00		520,000.00
Pavings—Chapter 217, Laws 1895	1,415,000.00		1,415,000.00
Alms House Construction	440,000.00		440,000.00
Street Openings—Chapter 121, Laws 1912	2,000,000.00		2,000,000.00
Passaic Valley Sewer	1,075,000.00		1,075,000.00
Sinking Funds and Interest	905,600.00	$ 7,439.08	913,039.08
INTEREST—			
General	240,402.51		240,402.51
Street Openings—Chapter 8, Laws 1909	11,225.00		11,225.00
Street Openings—Chapter 121, Laws 1912	31,527.78		31,527.78
Alms House Construction	9,843.75		9,843.75
Passaic Valley Sewer Construction	21,854.17		21,854.17
Longworth & Tichenor Fund	438.00		438.00
STREET IMPROVEMENTS—			
New Pavings—General	218,885.37	39,299.80	258,185.17
New Pavings—under Chapter 217, Laws 1895	306,755.80	45,021.82	351,777.62

New Sewers	364,162.02	8,046.06	372,208.08
Grading, Curbing and Flagging	56,678.35	24,415.94	81,094.29
Damages paid—Opening Streets	40,780.77		40,780.77
Damages paid—Opening Streets—Chapter 8, Laws 1909	19,364.00		19,364.00
Assessments Refunded	5,517.16	77.16	5.594.32
Dock and Ship Canal Construction	61,597.33	553.90	62,151.23
Public Bath Construction	74,378.32		74,378.32
Playground Construction	2,046.53		2,046.53
Passaic Valley Sewer Construction	1,147,765.66		1,147,765.66
Additional Hospital Accommodations	517,671.32	24,488.37	542,159.69
Alms House Construction	165,183.75	7,466.24	172,649.99
Watershed Extension	102,387.47		102,387.47
Fifteenth Ward Engine House	10,326.11		10.,326.11
Truck House No. 9	8,087.83		8,087.83
Engine House No. 9	30,648.36		30,648.36
Central Fire Station	29,323.07	1,484.78	30,807.85
Truck House No. 10	3,663.00		3,663.00
Track Elevation	40.00		40.00
Department of Water	1,492,022.20	22,201.12	1,514,223.32
City Home	52,693.18	3,048.62	55,741.80
City Hospital	172,414.73	14,740.19	187,154.92
Fire Department	669,255.69	40,726.53	709,982.22
Police Department	917,925.62	42,815.77	960,741.39
Public Health	153,055.38	11,247.52	164.302.90
Shade Tree Commission	60,454.88	3,426.53	63,881.41
Playground Commission	32,773.79	1,870.34	34,644.13
City Plan Commission	8,009.68	774.99	8,784.67
Free Public Library	115,208.00		115,208.00

CONSOLIDATED REPORT OF THE COMPTROLLER AND CITY TREASURER TO AUDITOR OF ACCOUNTS OF CASH RECEIPTS AND DISBURSEMENTS DURING THE YEAR 1913—*Continued*.

	Paid in 1913	Paid in 1914, on Acct. 1913	Total Paid on Acct. 1913
Art, Science and Industrial Museum	15,000.00		15,000.00
Maintenance Dog Pound	3,958.33	333.33	4,291.66
Bridges	9,073.23	118.95	9,192.18
Wharves	1,955.52	80.00	2,035.52
Crosswalks	1,108.89		1,108.89
Executive Department Board of Street and Water Commissioners	35,319.73	1,504.24	36,823.97
Public Lighting	233,405.86	42,834.10	276,239.96
Sewers and Drainage	66,437.29	1,182.01	67,619.30
Sidewalks	5,110.88	500.77	5,611.65
Streets and Highways	335,263.53	4,793.76	340,057.29
Scavenger	191,551.45	.56	191,552.01
House Sewer Connections	46,032.03	1,536.57	47,568.60
Public Baths	15,660.15	1,133.81	16,793.96
Repairs to Asphalt Streets	66,469.91	4,329.76	70,799.67
Maintenance Incline Plane	900.00	300.00	1,200.00
Surveyor's Department	39,488.32	2,172.64	41,660.96
Street Improvement Charges	37,447.18	2,444.79	39,891.97
Collecting Taxes	109,685.27	4,999.37	114,684.64
Poor and Alms	75,171.81	4,781.24	79,953.05
Public Buildings	91,057.77	5,069.55	96,127.32

Construction and Alteration Buildings	33,173.80	1,443.04	34,616.84	
Markets	22,090.64	1,208.23	23,298.87	
Public Outings	9,968.23	12.15	9,980.38	
Public Schools	1,288,472.00		1,288,472.00	
Hospitals	26,000.00		26,000.00	
Fourth of July Celebration	1,818.97		1,818.97	
Memorial Day Observance	1,841.44		1,841.44	
City Salaries	202,089.21	8,708.36	210,797.57	
Printing and Stationery	23,884.33	8,644.48	32,528.81	
City Sundries	30,718.69	6,617.79	37,336.48	
District Courts	16,695,59	755.46	17,451.05	
Weights and Measures	12,273.60	499.39	12,772.99	
Miscellaneous Advertising	17,361.26	5,245.34	22,606.60	
Inspecting Meters	1,764.17	62.50	1,826.67	
City Statistics	4,299.62	391.92	4,691.54	
Elections	21,263.68	4.50	21,268.18	
Licenses	37,436.67	5,647.98	43,084.65	
Public Band Concerts	6,904.45		6,904.45	
Rent of Armories	1,000.00		1,000.00	
Newark Technical School	20,000.00		20,000.00	
Free Dental Clinic	10,000.00		10,000.00	
Surplus under Martin Act	4,390.97		4,390.97	
Redemption under Martin Act	122,911.47		122,911.47	
County Collector	1,581,342.82		1,581,342.82	
Reserve Fund	50,034.26	1,627.06	51,661.32	
Assessment Deficiency—Openings	193.67		193.67	
Refund Tax Assessment	104.09		104.09	
Refund on Market Bonds		17,500.00	17,500.00	$30,642,725.77
	$30,207,097.36	$435,628.41	$30,642,725.77	

Balance as per Auditor's Ledger, Dec. 31, 1913	$ 1,480,887.06
Add amount paid in 1914, on account of 1913	435,628.41
Balance as per Treasurer's Report, Dec. 31, 1913	$ 1,916,515.47

AN ORDINANCE RESPECTING TAXES FOR 1913.

BE IT ORDAINED *by the Common Council of the City of Newark as follows:*

SECTION 1. That there be assessed, raised by taxes and collected upon and from all persons residing, and lands located in the City of Newark, the following sums, to wit:

For the construction and Repairs of Bridges.		$ 1,500.00
For Current Expenses and Maintenance of Public Baths		11,000.00
For Lighting the Streets of the City		200,000.00
For Regulating, Cleaning and Keeping in Repair the Public Sewers		47,500.00
For Regulating, Cleaning and Keeping in Repair the Streets and Highways		250,000.00
For Scavenger Work		161,500.00
For Laying and Repairing Sidewalks		2,000.00
For Laying House Sewer Connections		2,000.00
For Repairs to Asphalt Streets		60,000.00
For Executive Dept. Board of Street and Water Commissioners		25,000.00
For Surveyor's Dept. Board of Street and Water Commissioners		10,000.00
For Maintenance Incline Plane		1,200.00
For the Support of the Newark City Home		42,500.00
For the Support of the Newark City Hospital		163,500.00
For the Support of the Police Department		810,000.00
For the Support of the Fire Department	$619,175.00	
For the Fire Department Pensions	4,025.00	
		623,200.00
For the Support of the Department of Public Health		145,000.00

For the Support of the Shade Tree Department	44,000.00
For the Support of the Playground Department	27,000.00
For the Maintenance of the Dog Pound	4,500.00
For Assessing and Collecting the Taxes of the City	101,000.00
For Maintenance and Support of the Poor and Alms Department	65,000.00
For Repairing and Incidental Expenses to Public Buildings	77,000.00
For Maintenance and Support of the Department of Buildings	10,000.00
For Maintenance and Support of the Public Outing Camp	9,000.00
For Public Band Concerts	6,000.00
For Fourth of July Celebration	1,500.00
For Memorial Day Observance	1,780.63
For the Newark Technical School	20,000.00
For the Free Dental Clinic	10,000.00
For the Art, Science and Industrial Museum	15,000.00
For City Plan Commission	10,000.00
For Rental of Beds in Hospitals and in Eye and Ear Infirmary, and for the support of Babies Committed to Day Nurseries	26,000.00
For the Maintenance and Support of the Free Public Library:	
One-third Mill on Ratables 1912. $117,108.00	
Less one-half Sinking Fund and Interest 9,000.00	
	108,108.00

For the Current Expenses of the Public Schools, exclusive of State Appropriations, viz.:		
Current Expenses	$1,283,232.00	
Manual Training	5,000.00	
		1,288,232.00
For Interest on Temporary Loans (Chapter 8, Laws 1909)		6,731.26
For Amount of Deficiency on Assessments, for New Sewers		9,733.08
For Amount of Deficiency on Assessments for Street Pavings		17,116.11
For Amount of Deficiency on Assessments, for Street Pavings (Chapter 217, Laws 1895)		112,292.50
For Amount of Deficiency, Uncollected Personal Taxes		20,506.42
		$4,546,400.00
And also *a further special tax* of $60,000 to pay the interest on $1,500,000 **Funded Debt City Improvement Bonds** issued by authority of an Act of the Legislature of the State of New Jersey, approved June 9, 1890		60,000.00
And also, *a further special tax* of $30,000 to raise an amount equal to two per centum to the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds		30,000.00
And also, *a further special tax* of $4,000 to pay the interest on $100,000 **Street Opening Bonds** issued by authority of an Act of the Legislature of the State of New Jersey, approved March 17, 1892		4,000.00

And also, *a further special tax* of $3,500, to raise an amount equal to three and one-half per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds..	3,500.00
And also, *a further special tax* of $10,700 to pay the interest on $300,000 **High School Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved February 11, 1895.....	10,700.00
And also, *a further special tax* of $10,500 to raise an amount equal to three and one-half per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds...	10,500.00
And also, *a further special tax* of $12,000 to pay the interest on $300,000 **Free Library Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved March 16, 1896.....	12,000.00
And also, *a further special tax* of $6,000 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	6,000.00
And also, *a further special tax* of $1,750 to pay the interest on $50,000 **Free Library Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved March 19, 1900.....	1,750.00
And also, *a further special tax* of $1,000 to raise an amount equal to two per centum of the total amount of said debt to create a Sinking Fund for the redemption and payment of said Bonds.....	1,000.00

And also, *a further special tax* of $4,000 to pay the interest on $100,000 **Public School Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved February 24, 1898.....	4,000.00
And also, *a further special tax* of $3,500 to raise an amount equal to three and one-half per centum of the total amount of said debt to create a Sinking Fund for the redemption and payment of said Bonds	3,500.00
And also, *a further special tax* of $10,500 to pay the interest on $300,000 **Public School Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved March 23, 1899.....	10,500.00
And also, *a further special tax* of $6,000 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	6,000.00
And also, *a further special tax* of $3,500 to pay the interest on $100,000 **Public School Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved April 22, 1902.....	3,500.00
And also *a further special tax* of $2,000 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	2,000.00

And also, *a further special tax* of $4,025 to pay the interest on $115,000 **Public School Bonds**, issued by authority of an Act of the Legislature of the State of New Jersey, approved March 26, 1902.....	4,025.00
And also, *a further special tax* of $2,300 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	2,300.00
And also, *a further special tax* of $8,000 to pay the interest on $200,000 **School Bonds**, issued by authority of an Act of the Legislature of the State of New Jersey approved October 19, 1903.....	8,000.00
And also, *a further special tax* of $4,000 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	4,000.00
And also, *a further special tax* of $10,680 to pay the interest on $267,000 **School Bonds**, issued by authority of an Act of the Legislature of the State of New Jersey, approved October 19, 1903, and Acts amendatory thereof and supplementary thereto.	10,680.00
And also, *a further special tax* of $5,340 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	5,340.00

And also, *a further special tax* of $234,343 to pay the interest on $6,034,200 **School Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved October 19, 1903, and Acts amendatory thereof and supplementary thereto	234,343.00
And also *a further special tax* of $60,342 to raise an amount equal to one per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	60,342.00
And also, *a further special tax* of $52,500 to pay the interest on $1,500,000 **New City Hall Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved April 15, 1887.....	52,500.00
And also, *a further special tax* of $30,000 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	30,000.00
And also, *a further special tax* of $10,500 to pay the interest on $300,000 **New City Hospital Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved May 17, 1894.....	10,500.00
And also, *a further special tax* of $6,000 to raise an amount equal to two per centum of said debt, to create a Sinking Fund for the redemption and payment of said Bonds	6,000.00

And also, *a further special tax* of $17,500 to pay the interest on $500,000 **Track Elevation Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved March 23, 1900.....	17,500.00
And also, *a further special tax* of $10,000 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	10,000.00
And also, *a further special tax* of $35,380 to pay the interest on $972,000 **Track Elevation Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved March 30, 1904.....	35,380.00
And also, *a further special tax* of $9,720 to raise an amount equal to one per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	9,720.00
And also, *a further special tax* of $6,750 to pay the interest on $150,000 **Vailsburg Sewer Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved March 15, 1899.....	6,750.00
And also, *a further special tax* of $3,000 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	3,000.00
And also, *a further special tax* of $320 to pay the interest on $9,000 **Vailsburg School Bonds,** of 1900, issued by authority of an Act of the Legislature of the State of New Jersey, approved March 27, 1874....	320.00

And also, *a further special tax* of $1,000 for the redemption and payment of $1,000 of said Bonds	1,000.00
And also, *a further special tax* of $1,125 to pay the interest on $25,000 **Vailsburg School Bonds,** of 1903, issued by authority of an Act of the Legislature of the State of New Jersey, approved October 19, 1903	1,125.00
And also, *a further special tax* of $500 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	500.00
And also, *a further special tax* of $8,200 to pay the interest on $205,000 **Refunded Corporate Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved March 4, 1902....	8,200.00
And also, *a further special tax* of $10,250 to raise an amount equal to five per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	10,250.00
And also, *a further special tax* of $41,200 to pay the interest on $1,030,000 **Corporate Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved April 12, 1910.....	41,200.00
And also, *a further special tax* of $36,050 to raise an amount equal to three and one-half per centum of the total amount of said debt to create a Sinking Fund for the redemption and payment of said Bonds..	36,050.00

And also, *a further special tax* of $14,000 to pay the interest on $350,000 **Fire and Police Building Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved March 24, 1906	14,000.00
And also, *a further special tax* of $7,000 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	7,000.00
And also, *a further special tax* of $8,000 to pay the interest on $200,000 **Dock Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved October 21, 1907.....	8,000.00
And also, *a further special tax* of $2,000 to raise an amount equal to one per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	2,000.00
And also, *a further special tax* of $5,000 to pay the interest on $125,000 **City Bath House Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved April 11, 1910.....	5,000.00
And also, *a further special tax* of $2,500 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	2,500.00

And also, *a further special tax* of $3,000 to pay the interest on $75,000 **Play Ground Bonds**, issued by authority of an Act of the Legislature of the State of New Jersey, approved May 1, 1911.....	3,000.00
And also, *a further special tax* of $1,500 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	1,500.00
And also, *a further special tax* of $44,800 to pay the interest on $1,120,000 **Passaic Valley Sewerage Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved March 18, 1907, and Acts amendatory thereof and supplementary thereto.....	44,800.00
And also, *a further special tax* of $11,200 to raise an amount equal to one per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	11,200.00
And also, *a further special tax* of $12,000 to pay the interest on $300,000 **City Hospital Bonds,** issued by authority of an Act of the Legislature of the State of New Jersey, approved April 7, 1903.....	12,000.00
And also, *a further special tax* of $6,000 to raise an amount equal to two per centum of the total amount of said debt, to create a Sinking Fund for the redemption and payment of said Bonds.....	6,000.00

And also, *a further special tax* of $10,625 to pay the interest on $500,000 **City Hospital Bonds,** issued March 1, 1913, by authority of an Act of the Legislature of the State of New Jersey, approved April 7, 1903...	10,625.00
Total Section No. 2.....	$905,600.00
Total Section No. 1.....	$4,546,400.00
Total Section No. 2.....	905,600.00
Total Tax Ordinance.....	$5,452,000.00

P. C. O'BRIEN,
J. F. REILLY,
E. J. QUIGLEY,
E. C. EATON,
W. F. HOPPING,
GEO. W. TAYLOR,

Committee on Finance.

Adopted August 1, 1913.

J. H. DONNELLY,
President of Common Council.

JAS. F. CONNELLY, *City Clerk.*

Presented to the Mayor for his approval August 2, 1913.
Approved August 2, 1913.

JACOB HAUSSLING, *Mayor.*

RESOLUTION.

A Supplement of the Tax Ordinance of 1913.

WHEREAS, The sums appropriated in the Tax Ordinance by the Common Council are insufficient to supply the demands of the various City Departments, even when administered with the strictest economy, therefore be it

Resolved, That the following sums be transferred from the Contingent Fund to the respective accounts named below, under the order of the Common Council, as rapidly as said funds shall become available, which sums shall be supplementary to those contained in the Tax Ordinance of 1913, to wit:

Bridges	$ 500.00
Public Lighting	50,000.00
Streets & Highways	68,000.00
Scavenger	30,000.00
Repairs to Asphalt Streets	5,000.00
Executive Department	10,000.00
Surveyor's Department	10,000.00
Cancelled Personal Tax	100,000.00
Fire Department	105,000.00
Police Department	150,000.00
City Hospital	20,000.00
Public Health	10,000.00
City Home	10,000.00
Shade Tree Commission	10,000.00
Playground Commission	5,000.00
Public Baths	5,000.00
Collecting Taxes	9,000.00
Poor and Alms	5,000.00
Public Buildings	8,000.00

Band Concerts	1,000.00
Public Outings	1,000.00
Fourth of July Celebration	500.00
City Salaries	213,300.00
City Sundries	25,000.00
Printing and Stationery	20,000.00
Elections	26,000.00
Miscellaneous Advertising	17,000.00
City Statistics	4,700.00
Inspecting Meters	1,000.00
Weights and Measures	15,000.00
	$935,000.00

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E. J. QUIGLEY,
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Approved August 2, 1913.

JACOB HAUSSLING, *Mayor.*

SCHEDULE SHOWING COST OF STREET IMPROVEMENTS CONFIRMED DURING 1913

SCHEDULE SHOWING COST OF STREET IMPROVEMENTS

CONFIRMED DURING 1913

STREET IMPROVEMENTS	Contractors	Inspectors	Cost Preliminary	Commissioners' Fees	Maps and Clerkship	Advertising	Court and Filing Fees	Interest	Engineering	Damages Awarded	Am't Ass'd on City Property	Am't Ass'd on City at Large	Am't Ass'd on Property Owners	Total
PAVINGS—CHAPTER 217, LAWS 1895														
Hobson Street from Hawthorne Avenue to Shaw Avenue	$ 14,868.28	$ 114.00	$ 122.00	$ 105.00	$ 90.00	$ 75.00	$ 11.36	$ 38.64	$ 297.62			$ 681.80	$ 15,000.00	$ 15,771.80
Isabella Avenue from South Orange Avenue to Plymouth Street	10,458.15	96.00	68.20	90.00	80.00	75.00	11.36	92.83	309.10			780.55	10,410.85	11,150.70
Smith Street from South Orange Avenue to Silver Street	11,166.00	74.00	68.20	90.00	80.00	75.00	11.36	99.66	228.38			519.20	11,339.30	11,858.50
Nye Avenue from Clinton Place to City Line	20,355.70	88.00	80.20	105.00	85.00	75.00	11.36	148.33	407.11			4,371.36	16,979.34	21,350.70
Belmont Avenue from Watson Avenue to Meeker Avenue	3,566.39	104.00	67.00	45.00	35.00	37.50	11.36	22.41	70.14			826.69	3,072.61	3,899.30
Hillside Avenue from Watson Avenue to Meeker Avenue	3,670.89	88.00	67.00	45.00	35.00	37.50	11.36	25.64	70.21			724.36	3,166.14	3,890.50
Jelliff Avenue from Watson Avenue to Meeker Avenue	3,309.64	96.00	87.00	45.00	35.00	37.50	11.36	24.71	66.19			624.74	3,167.50	3,792.30
Badger Avenue from Hawthorne Avenue to Meeker Avenue	11,889.79	356.00	67.00	90.00	90.00	75.00	11.36	130.27	237.78			1,142.76	11,794.44	12,937.20
Leslia Street from Hawthorne Avenue to Shaw Avenue	15,242.55	104.00	122.60	105.00	85.00	75.00	11.36	163.14	304.85	$ 420.00		891.27	14,001.63	15,212.90
Richelieu Terrace from South Orange Avenue to Helen Place	13,118.35	134.00	68.20	90.00	80.00	75.00	11.36	125.83	242.36	1,125.00		1,150.65	10,659.45	12,945.10
Market Street from east side R. R. Pl. east of P.R.R. to Bowery Street	49,648.20	826.00	120.75	100.00	140.00	75.00	11.50	467.04	993.50	2,700.00		15,729.06	34,561.96	52,992.00
Newark Street from Bank Street to Central Avenue	17,254.99	192.00	166.40	105.00	87.00	37.50	11.36	79.50	345.10			3,598.20	14,680.55	18,278.85
Elizabeth Avenue from West Newark Branch of P.R.R. to City Line	67,000.75	675.00	312.50	150.00	100.00	75.00	11.36	969.33	1,340.11	28,227.35		4,693.02	37,648.73	70,640.05
New York Avenue from Garrison Street to Jabez Street	4,622.24	116.00	141.00	45.00	35.00	37.50	11.36	27.31	00.44	41.40		2,402.55	2,387.80	9,331.35
St. Paul Avenue from South Orange Avenue to 600 ft. south of Cliff Street	10,750.23	252.00	68.20	90.00	80.00	75.00	11.36	117.20	215.00			720.22	10,038.88	11,659.10
Alpine Street from South Eighteenth Street to South Nineteenth Street	2,511.14	48.00	141.00	45.00	35.00	37.00	11.36	29.27	00.33			1,539.80	1,001.39	2,900.50
Halsey Street from Camfield Street to Market Street	3,486.57	74.00	87.00	00.00	40.00	37.00	11.36	19.74	69.73			787.28	3,118.62	3,883.90
South Twentieth Street from Springfield Avenue to Sixteenth Avenue	28,640.82	324.00	202.86	135.00	120.00	75.00	11.50	87.95	670.81			919.07	20,148.23	30,067.80
Woodside Avenue from Elmwood Avenue to Delevan Avenue	7,537.23	192.00	115.32	90.00	60.00	75.00	11.36	20.15	151.14			747.52	7,559.68	8,238.20
Dewey Street from Hawthorne Avenue to Shaw Avenue	19,507.29	164.00	73.65	120.00	100.00	75.00	11.36	54.00	380.14			663.18	18,832.17	20,495.35
Jefferson Street from Malvern Street to South Street	7,650.12	148.00	73.65	00.00	80.00	75.00	11.36	29.27	162.60			1,890.50	6,603.44	8,290.00
Jeffery Place from Bergen Street to Chadwick Avenue	1,931.35	60.00	148.33	45.00	35.00	37.50	11.36	22.24	39.62			830.45	1,560.00	2,390.45
	$327,152.99	$4,356.00	$2,447.51	$1,935.00	$1,612.00	$1,350.00	$249.92	$3,312.45	$6,543.18		$32,584.71	$45,730.59	$270,643.75	$348,959.05
PAVINGS														
Highland Avenue from Bloomfield Avenue to Second Avenue	$ 7,803.85	$ 80.00	$ 74.10	$ 60.00	$ 50.00	$ 37.50	$ 11.36	$ 62.62	$ 156.07			$ 651.10	$ 7,400.34	$ 8,351.50
Tichenor Lane from Murray Street to Parkhurst Street	4,991.47	62.00	145.16	45.00	35.00	37.50	11.36	79.99	99.82			398.74	0,107.00	5,506.40
McWhorter St. from Elm St. to Chestnut St., and from John St. to Vesey St.	21,604.97	170.00	95.60	135.00	125.00	75.00	11.50	224.38	430.00	$ 494.00		4,931.96	17,345.44	22,771.40
Nutria Street from Branford Place north about 100 feet	503.59		145.40	15.00	10.00	37.00	11.36	7.38	10.07			00.16	650.14	749.30
South Nineteenth Street from Springfield Avenue to Sixteenth Avenue	35,100.10	342.00	81.20	150.00	140.00	75.00	11.36	287.96	723.18			2,374.24	35,595.56	37,969.80
Elder Place from Camp Street southerly 291 feet	1,746.21	32.00	95.50	15.00	10.00	37.50	11.36	23.11	34.92			122.60	1,903.00	2,025.60
Johnson Avenue from Watson Avenue 315 feet southerly	1,357.61	70.00	191.80	30.00	20.00	37.50	11.50	36.09	31.15			126.26	1,865.34	1,991.60
South Twelfth Street from South Orange Avenue to City Line	24,544.15	168.00	66.20	120.00	90.00	75.00	11.36	254.71	490.88			2,140.72	23,661.58	25,822.30
Eleventh Avenue from South Eleventh Street to South Twelfth Street	2,677.10	112.00	178.36	45.00	35.00	37.50	11.36	23.24	53.54			1,212.56	1,001.05	3,173.10
South Twelfth Street from Avon Avenue to Springfield Avenue	13,133.56	196.00	74.10	105.00	90.00	75.00	11.36	76.12	262.67			720.50	13,202.24	14,022.60
West Kinney Street from Washington Street to High Street	7,394.54	148.00	172.30	60.00	40.00	37.50	11.36	85.99	147.80			1,529.70	6,574.00	8,104.00
Cabinet Street from Norfolk Street to South Sixth Street	27,409.11	466.00	162.40	150.00	140.00	75.00	11.36	323.25	548.13	1,050.00		4,901.06	23,328.24	29,285.35
Frelinghuysen Avenue from Dayton Street to Union Line, Essex County	68,940.62	840.00	117.52	150.00	100.00	75.00	11.36	2,721.41	1,779.81	25,893.72		16,705.45	52,226.45	94,735.63
Runyon Street from Elizabeth Avenue to easterly side of Seymour Avenue	25,386.23	294.00	101.00	120.00	90.00	75.00	11.36	221.96	507.92	1,350.00		1,875.81	23,571.59	26,777.40
Adams Street from Chestnut Street to South Street	13,915.38	368.00	74.10	105.00	85.00	75.00	11.36	229.51	268.30			2,533.42	12,256.23	10,131.65
Dickerson Street from Norfolk Street to First Street	21,672.15	300.00	85.80	120.00	90.00	75.00	11.36	256.70	433.44	1,712.97		3,563.85	18,110.43	23,387.25
Ashland Street from Fourteenth Avenue to South Orange Avenue	4,847.00	96.00	80.00	80.00	80.00	37.00	11.36	38.84	96.95			174.69	5,133.88	5,308.55
First Avenue from Third Street to Bloomfield Avenue	5,431.22	76.00	80.00	60.00	40.00	37.00	11.30	48.60	128.62			1,243.21	0,670.00	6,913.36
First Street from Orange Street to Morris Canal	10,102.61	224.00	50.00	90.00	60.00	75.00	11.30	112.66	202.52			1,271.00	9,706.56	10,978.15
Leonard Place from Plane Street 168 feet easterly	803.20	32.00	95.60	15.00	10.00	37.50	11.36	14.46	17.38			00.02	1,006.38	1,102.40
Christie Street from Bonykamper Avenue to Ferry Street	14,110.66	152.00	80.00	105.00	85.00	75.00	11.36	99.97	282.21			1,270.08	13,725.12	15,001.20
Bonykamper Avenue from Hawkins Street to Christie Street	10,284.63	128.00	144.00	105.00	85.00	75.00	11.36	95.71	205.70			2,086.50	9,047.80	11,134.30
Fourth Street from Park Avenue to Sixth Avenue	7,765.58	180.00	127.00	60.00	40.00	37.50	11.36	79.60	155.31	2,750.00		1,238.11	4,434.84	8,462.05
Coeyman Street from Mt. Prospect Avenue to Clifton Avenue	2,009.38	80.00	100.40	30.00	20.00	37.00	11.36	23.68	41.38			564.50	1,885.20	2,419.70
Merchant Place from Merchant Street easterly 358 feet	2,220.10	76.00	95.50	30.00	20.00	37.00	11.36	38.21	56.68			647.25	2,037.00	2,684.25
Spruce Street from Washington Street to High Street	10,960.75	148.00	63.50	90.00	80.00	75.00	11.36	114.46	219.83			2,774.20	9,200.20	11,773.40
	$369,116.49	$4,864.00	$2,821.93	$2,070.00	$1,550.00	$1,462.50	$295.36	$5,920.62	$7,373.92		$3,186.69	$55,459.89	$306,928.14	$395,574.72
SEWERS														
Frelinghuysen Avenue from Foster Street 700 feet southerly	$ 606.36	$ 26.00	$ 135.12	$ 15.00	$ 10.00	$ 37.50	$ 11.36	$ 7.40	$ 12.02			$ 286.30	$ 574.40	$ 809.70
Hansbury Avenue, Keer Avenue and Grumman Avenue from Elizabeth Avenue to 60 feet west of Bergen Street	3,241.00	144.00	174.65	30.00	20.00	75.00	11.36	30.80	64.83				3,792.40	3,792.40
Montrose Street from South Orange Village Line to Cameron Road	1,387.84	100.00	99.50	15.00	10.00	37.50	11.36	27.45	27.75				1,806.00	1,806.50
Salem Street from South Grange Avenue southerly 625 feet	874.70	48.00	135.00	15.00	10.00	37.50	11.30	13.20	17.50				1,163.35	1,163.35
Broad Street from Rector Street to Central Avenue	1,532.10	192.00	141.93	15.00	10.00	37.50	11.36	13.17	30.64			816.18	1,077.62	1,893.70
Halsey Street from Academy Street to Morris Canal	361.00	46.00	93.21	9.00	6.00	37.50	11.36	6.51	7.22			253.69	319.11	577.80
North Thirteenth Street from terminus of present sewer 900 feet south of Second Avenue to Third Avenue	1,964.44	48.00	151.43	15.00	10.00	37.50	11.36	10.09	21.28				1,370.00	1,370.50
Delevan Avenue from Summer Avenue to Woodside Avenue	789.20	60.00	93.21	9.00	6.00	37.50	11.36	5.06	15.78			386.32	656.78	1,023.10
Ferdinand Street from Grove Street to South Twentieth Street	445.20	12.00	64.60	15.00	10.00	37.00	11.36	4.04	8.90				686.00	686.00
North Twelfth Street to Sixth Avenue to Seventh Avenue	1,506.97	00.00	128.50	15.00	10.00	37.50	11.36	23.35	30.12				1,858.36	1,858.80
Weston Avenue from Frelinghuysen Avenue to Pennsylvania Railroad	1,339.28	36.00	64.60	15.00	10.00	37.50	11.36	9.73	20.78			146.21	1,405.94	1,550.25
First and Roseville Avenues, in First Avenue between North Tenth Street and Roseville Avenue	3,599.36	174.00	93.21	30.00	20.00	37.50	11.36	55.15	71.98	1,095.00	110.87	2,890.83	4,092.00	
Irvington-Newark Storm Water	16,322.83	64.00	157.36	150.00	200.00	150.00	11.50	222.94	79.76	622.68	1,200.33	15,465.34	17,377.35	
South Thirteenth Street from Fifteenth Avenue to Sixteenth Avenue	986.50	112.00	128.50	15.00	10.00	37.50	11.36	10.61	19.72			1,831.10	1,331.10	
Gold Street from Jacob Street to Blum Street	462.35	40.00	64.60	15.00	10.00	37.00	11.36	5.14	9.25			256.20	400.00	656.20
Woodside Avenue from terminus of present sewer south of Elmwood Avenue to Delevan Avenue	1,192.65	84.00	64.60	15.00	10.00	37.50	11.36	11.34	23.85			207.12	1,243.18	1,450.30
Jay Street from Dickerson Street to Central Avenue	647.90	56.00	64.60	15.00	10.00	37.50	11.50	6.18	12.96			836.00	220.00	830.00
Alpine Street from Milford Avenue to Johnson Avenue	247.90	24.00	64.60	15.00	10.00	37.50	11.36	3.90	4.95	100.00	219.36	100.00	419.80	
Duryea Street Relief	45,001.01	872.00	00.60	195.00	200.00	250.00	11.36	1,270.43	900.00	1,592.38	15,450.06	31,744.42	48,700.40	
	$ 81,578.07	$2,230.00	$2,010.92	$ 618.00	$ 582.00	$1,075.00	$215.84	$1,743.22	$1,384.70		$ 3,410.06	$20,019.02	$ 63,068.07	$ 91,437.70
GRADING, CURBING AND FLAGGING														
Clifton Avenue from Abington Avenue to Second Avenue	$ 6,345.19	$ 424.00	$ 127.35	$ 60.00	$ 00.00	$ 37.50	$ 11.36	$ 119.50	$ 126.00				$ 7,312.00	$ 7,312.00
Willoughby Street from Lyons Avenue to St. James Place	3,191.50	148.00	86.05	45.00	35.00	37.50	11.30	35.56	63.83				3,052.80	3,052.80
Aldine Street from Lyons Avenue to intersection of Clinton Pl. & Edmunds Pl.	6,342.53	214.00	65.05	60.00	50.00	37.50	11.36	74.42	124.85				6,809.70	6,809.70
Fourth Street from Abington Avenue to Third Avenue	9,751.64	408.00	289.96	90.00	80.00	75.00	11.36	237.11	195.03				11,278.10	11,278.10
Mead Street from Silver Street to Ocean Avenue	2,693.47	204.00	84.75	45.00	35.00	37.50	11.36	187.80	41.87				2,730.75	2,730.75
Second Avenue from Third Street to Roseville Avenue	5,677.51	156.00	85.05	30.00	20.00	37.50	11.50	174.94	113.54			$ 91.00	6,216.40	6,308.20
Third St. from Bloomfield Ave. to intersection of Third Ave. & Morris Canal	3,444.62	232.00	04.20	30.00	20.00	37.50	11.36	44.55	68.88			324.95	3,668.25	3,993.20
South Twentieth Street from Clinton Avenue to Springfield Avenue	9,330.92	512.00	87.75	90.00	60.00	75.00	11.36	371.55	186.02				10,726.20	10,726.20
Veroon Avenue (Flagging) from Nairn Place 206 feet westerly	395.00	10.00	149.75	15.00	10.00	37.50	11.36	4.81	0.12			00.24	506.26	556.50
Clinton Place (Flagging) west side from Randolph Place to Hawthorne Avenue, Nye Ave to Renner Ave, and east side from Hawthorne Ave. to Renner Ave.	3,655.79	160.00	127.50	45.00	35.00	37.50	11.36	49.04	73.11			591.18	3,603.12	4,194.30
Clifton Avenue (Flagging) from Abington Avenue to Berkeley Avenue	470.77	12.00	78.02	10.00	10.00	37.50	11.30	0.35	9.40				651.30	651.36
Christie Street (Flagging) from Bonykamper Avenue to Ferry Street	939.38	40.00	163.00	15.00	10.00	37.50	11.36	20.53	18.78				1,255.65	1,255.65
Grafton Avenue from Summer Avenue to Washington Avenue	5,519.15	120.00	175.33	00.00	40.00	75.00	11.36	122.68	110.38			$ 399.78	550.42	5,283.70	6,233.90
	$ 56,963.73	$2,748.00	$1,633.05	$ 600.00	$ 455.00	$ 600.00	$147.68	$1,478.83	$1,139.31			$ 899.78	$ 1,606.50	$ 63,763.18	$ 65,771.50
OPENINGS														
Woodside Avenue from Montclair Avenue to Verona Avenue			$ 681.29	$ 00.00	$ 60.00	$ 75.00	$ 22.72	$ 160.74		$ 19,670.00		$ 3,060.59	$ 17,695.16	$ 20,725.75
Clay Street and Carlisle Place, Broad Street, Ogden Street, Carlisle Place from Triangle at Mt. Pleasant Avenue			1,457.48	903.00	300.00	160.00	22.72	9,533.60		87,917.20	$ 1,248.32	42,505.36	00,277.33	100,031.00
South Thirteenth Street from Sixteenth Avenue north to Peat Street, north 199.65 feet, except that portion included in French Street			233.72	60.00	00.00	37.50	11.36	78.07		7,530.15		531.65	7,469.15	8,000.30
McClellan Street from present terminus at P. R. R. to Evergreen Avenue			231.32	60.00	50.00	75.00	22.72	29.76		4,225.00			4,774.30	4,774.30
Salem Street from 568 feet south of South Orange Avenue to Rockland Terrace			380.56	60.00	00.00	75.00	22.72	60.35		5,260.00			5,908.00	5,908.00
			$2,974.37	$ 840.00	$ 500.00	$ 412.50	$102.24	$9,872.49		$124,638.35	$ 1,248.32	$46,067.50	$ 02,124.54	$139,440.45

OPENING DAMAGES

McClellan Street from P. R. R. to Evergreen Avenue	$ 4,225.00
Woodside Avenue from Montclair Avenue to Verona Avenue	20,246.00
North Sixth Street from old Bloomfield Road north 215 feet	1,000.00
Custer Avenue from Chadwick Avenue to Seymour Avenue	275.00
Clifford Street from Jefferson Street to Adams Street	.05
First Avenue from Bloomfield Avenue to North Tenth Street	.30
Harper Street from Avenue C to Tompkins Point Road	.05
	$25,776.40

ANNUAL REPORT

OF THE

COMPTROLLER

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

COMPTROLLER

March 24, 1914.

To His Honor the Mayor, and the Common Council of the City of Newark:

GENTLEMEN:—The Comptroller's report is herewith submitted for the year ending December 31, 1913, showing a detailed statement of the bonded indebtedness, the amount held by the Sinking Fund Commissioners for its payment, and the receipts from the various sources for the year.

Yours very respectfully,

TYLER PARMLY,
Comptroller.

COMPTROLLER'S RECEIPTS FOR THE YEAR 1913.

Street Openings	$124,191.18
Vacating Streets	242.00
Gradings	79,601.30
Gradings, Vailsburgh	20.12
Pavings	372,915.02
Pavings, Chapter 217	251,275.44
Sewers	75,749.97
Old Sewers	270.72
Sewer Bond Sinking Fund	212.94
Redemptions	125,420.82
Licenses, Excise	648,140.00
Licenses, General	58,857.91
City Clerk's Fees	11,683.03
Markets	59,773.89
Fire Department	704.49
Fire Department, Pension	4,033.79
Police Fines	15,954.50
Police Commissioners	439.89
Public Health	14,193.07
Public Health, Fines	349.75
City Hospital	1,407.97
Printing and Stationery	1,095.68
Public Buildings	111.23
Poor and Alms	913.04
Alterations	25,670.20
Reserve Fund	59,844.93
Real Estate	54.00
Humane Society	578.00
Education, Construction	12,225.72
Education, Current	2,450,324.73
District Courts	27,416.49

City Home	3,241.97
City Plan	13.25
Surplus and Deficiency	10.00
Playgrounds	391.35
Martin Act Surplus	409.27
Memorial Day	60.81
Public Outing	20.75
Franchise Tax	78,940.75
Bath House Construction	450.00
Temporary Loans	19,523.000.00
Temporary Loan Premiums	22.00
Bonds—	
City Hospital 1943	150,000.00
High Pressure 1933	50,000.00
Water 1933	100,000.00
Water 1933	100,000.00
City Hospital 1943	100,000.00
City Hospital 1943	50,000.00
Water 1943	100,000.00
City Hospital 1943	200,000.00
Market 1943	17,500.00
Repairing Sidewalks	3,737.01
Water Service Department	86,863.33
Water Service Arrears	12,117.37
House Sewer Connection Department	17,045.40
House Sewer Connection Arrears	25,884.39
Crosswalks	12.00
Public Lighting	16,584.44
Surveyor's Department	360.39
Executive Department	174.85
Repairs, Asphalt Streets	6,298.45
Wharves	1,156.00
Street Repairs	22,391.35
Taxes, 1913	6,075,187.08
Sewer Taps	18,365.00

Public Baths	2,689.55
Sewers and Drainage	1,475.47
Water Department	91.89
Water Rents	1,262,167.53
Private Sewer	453.83
Bridges	141.70
Storage Reservoir	455.00
Watershed Extension	2,661.79
Taxes 1912	684,109.76
Real Estate Arrears 1912	786,146.36
" " 1911	101,815.09
" " 1910	5,886.58
" " 1909	2,041.08
" " 1908	1,135.64
" " 1907	387.53
" " 1906	174.26
" " 1905	277.85
" " 1903	23.79
Personal " 1912	72,864.77
" " 1911	6,816.46
" " 1910	1,422.83
" " 1909	618.95
" " 1908	260.91
" " 1907	138.77
" " 1906	93.02
" " 1905	70.15
" " 1904	51.61
Shade Trees, Arrears 1912	868.95
Shade Trees, Receiver 1912	936.45
" Arrears 1911	185.39
" " 1910	203.20
" " 1909	83.47
" " 1908	5.36
" Commissioners	1,603.36
" 1913	8,007.47

Tax Certificates, 1910	1,020.55
" " 1906	16.90
" " 1905	20.10
" " 1904	459.97
" " 1903	2.35
" " Prior	665.23
Interest—	
On Deposits	44,810.76
On Bonds	9,041.69
On Loans	854.36
Street Improvements	82,905.66
Sewer Bond Sinking Fund	75.29
House Sewer Connections	1,023.56
Water Service Connections	961.95
Real Estate Arrears, 1912	59,845.26
" " 1911	13,445.19
" " 1910	1,755.14
" " 1909	843.73
" " 1908	662.77
" " 1907	258.67
" " 1906	120.19
" " 1905	245.21
" " 1903	11.28
Personal Estate Arrears, 1912	4,095.42
" " 1911	1,077.63
" " 1910	386.34
" " 1909	237.40
" " 1908	133.50
" " 1907	88.81
" " 1906	67.92
" " 1905	104.26
" " 1904	18.93
Shade Trees	204.41
Tax Certificates, 1903, etc	656.60
Tax Certificates prior 1903	721.10

Contingent—	
Martin Act	1,406.60
Real Estate Arrears, 1912	2,047.76
" " 1911	5,449.70
" " 1910	194.67
" " 1909	26.25
" " 1908	14.20
" " 1907	4.04
" " 1906	1.25
Personal Estate Arrears, 1912	1,200.58
" " 1911	271.16
" " 1910	65.24
" " 1909	29.48
" " 1908	14.12
" " 1907	6.68
" " 1906	4.56
" " 1905	5.36
" " 1904	1.32
Searches, Official	8,840.00
Searches, Memo	800.00
Miscellaneous	170,467.37
Total	$34,547,963.32

TEMPORARY INDEBTEDNESS.

Temporary Loan Bonds outstanding December 31, 1913, were as follows:

Taxes	$1,143,000.00
Pavings	1,265,000.00
Sewers	735,000.00
Alms House	300,000.00
Openings	1,180,000.00
Passaic Valley Sewer	2,300,000.00
Total	$6,923,000.00

THE CITY DEBT

Showing bonds outstanding and the amount held
by the Sinking Fund Commissioners
for the payment of same

December 31, 1913

Authorized by Act Approved	When Issued	Loan Known as	When Due	Interest	Sinking Fund	Amount	Amount in Sinking Fund
Mar. 27, 1874	July 1, 1900	Schools	1914-20	4 %	$1,000 ea. year	$ 7,000.00	$ 1,277.83
Mar. 6, 1884	Oct. 1, 1884	Water	1914	4 %	3 %	30,000.00	38,542.59
Mar. 6, 1884	Feb. 1, 1885	Water	1915	4½%	3 %	200,000.00	235,427.94
Mar. 17, 1892	Aug. 5, 1895	Street Opening	1915	4 %	3 %	100,000.00	126,185.29
Mar. 26, 1888	Aug. 21, 1895	Water	1915	4 %	3 %	40,000.00	29,912.03
Mar. 6, 1884	Oct. 31, 1885	Water	1915	4½%	3 %	15,000.00	17,673.11
Feb. 11, 1895	June 1, 1896	High Schools	1916	4 %	3 %	100,000.00	89,567.13
Mar. 6, 1884	Aug. 1, 1886	Water	1916	4 %	3 %	12,000.00	12,842.21
Mar. 26, 1888	Oct. 20, 1896	Water	1916	4 %	3 %	40,000.00	27,725.81
Mar. 6, 1884	April 1, 1887	Water	1917	4 %	3 %	15,000.00	14,905.01
Feb. 11, 1895	Oct. 1, 1897	High Schools	1917	3.35%	3 %	200,000.00	136,670.21
Mar. 6, 1884	Mar. 1. 1888	Water	1918	4½%	3 %	20,000.00	18,415.00
Feb. 24, 1898	Aug. 8, 1898	Public Schools	1918	4 %	3 %	100,000.00	60,360.66
May 18, 1898	Oct. 12, 1899	Water	1919	4 %	3 %	20,000.00	10,804.79
May 18, 1898	Aug. 1, 1900	Water	1920	4 %	3 %	20,000.00	9,855.50
May 18, 1898	Sept. 1, 1901	Water	1921	4 %	3 %	20,000.00	8,922.88
May 14, 1889	Feb. 1, 1892	Funded Debt Water	1922	4 %	2 %	2,450,000.00	1,510,806.90
May 14, 1889	May 1, 1892	New Supply Water	1922	4 %	2 %	6,000,000.00	3,123,658.19
May 18, 1898	Oct. 1, 1902	Water	1922	4 %	3 %	30,000.00	12,028.45
June 9, 1890	Mar. 15, 1893	Funded Debt City Improvement	1923	4 %	2 %	1,500,000.00	902,653.09
May 18, 1898	July 1, 1903	Water	1923	4 %	3 %	30,000.00	11,376.51

Authorized by Act Approved	When Issued	Loan Known as	When Due	Interest	Sinking Fund	Amount	Amount in Sinking Fund
Mar. 4, 1902	July 1, 1908	Refunding Corporate	1923	4 %	5 %	130,000.00	42,510.26
May 18, 1898	May 1, 1905	Water	1925	4 %	3 %	50,000.00	15,776.08
Mar. 4, 1902	June 1, 1910	Refunding Corporate	1925	4 %	5 %	75,000.00	15,693.19
Mar. 16, 1896	June 1, 1897	Free Library	1927	4 %	2 %	300,000.00	142,870.45
May 14, 1889	Aug. 1, 1897	Water (Funded Debt)	1927	4 %	2 %	100,000.00	42,694.59
Apr. 24, 1897	Oct. 1, 1898	Water	1928	4½%	2 %	20,000.00	6,074.54
Mar. 26, 1888	Nov. 16, 1908	Water	1928	4 %	3½%	50,000.00	9,452.51
Mar. 8, 1905	May 1, 1909	Funded Debt Water	1929	4 %	3½%	100,000.00	18,905.04
Mar. 23, 1899	Dec. 1, 1899	Public Schools	1929	3½%	2 %	300,000.00	110,677.46
Mar. 26, 1888	Mar. 1, 1910	Water	1930	4 %	3½%	50,000.00	7,417.80
Mar. 28, 1904	Mar. 1, 1910	High Pressure Water	1930	4 %	3½%	50,000.00	7,417.80
Apr. 12, 1910	July 1, 1910	Corporate	1930	4 %	3½%	1,030,000.00	112,047.81
Mar. 19, 1900	Jan. 1, 1901	Free Library	1931	3½%	2 %	50,000.00	17,783.21
Apr. 15, 1887	Jan. 1, 1901	City Hall	1931	3½%	3 %	1,000,000.00	482,404.42
Mar. 28, 1904	May 1, 1911	High Pressure Water	1931	4 %	3½%	100,000.00	7,135.84
Mar. 26, 1888	May 1, 1911	Water	1931	4 %	3½%	50,000.00	3,567.92
May 17, 1894	Jan. 1, 1902	New City Hospital	1932	3½%	2 %	300,000.00	97,141.70
Mar. 23, 1900	Jan. 1, 1902	Track Elevation	1932	3½%	2 %	500,000.00	161,902.87
Apr. 15, 1887	Oct. 1, 1902	City Hall	1932	3½%	2 %	500,000.00	162,555.59
Apr. 22, 1902	Oct. 1, 1902	Public Schools	1932	3½%	2 %	100,000.00	26,118.13
Mar. 28, 1904	May 1, 1912	High Pressure Water	1932	4 %	3½%	25,000.00	1,329.48
Mar. 26, 1888	June 1, 1912	Water	1932	4 %	3½%	50,000.00	1,750.00
Mar. 26, 1902	May 1, 1903	Public Schools	1933	3½%	2 %	100,000.00	24,738.24

Authorized by Act Approved	When Issued	Loan Known as	When Due	Interest	Sinking Fund	Amount	Amount in Sinking Fund
Mar. 26, 1902	June 24, 1903	Public Schools	1933	3½%	2 %	15,000.00	4,054.99
Oct. 19, 1903	Nov. 1, 1903	Public Schools	1933	4½%	2 %	25,000.00	6,918.13
Mar. 28, 1904	Mar. 1, 1913	High Pressure Water	1933	4¼%	3½%	50,000.00	875.00
April 6, 1911	Mar. 1, 1913	High Pressure Water	1933	4¼%	3½%	200,000.00	3,500.00
Mar. 15, 1899	Jan. 1, 1904	Sewers	1934	4½%	2 %	140,000.00	29,987.61
Oct. 19, 1903	April 1, 1904	Schools	1934	4 %	2 %	200,000.00	44,043.91
Mar. 28, 1904	Aug. 1, 1904	High Pressure Water	1934	3½%	2 %	100,000.00	21,034.79
Mar. 15, 1899	Oct. 1, 1904	Sewers	1934	4½%	2 %	10,000.00	1,760.09
Apr. 16, 1908	Aug. 1, 1908	Water	1938	4 %	2 %	100,000.00	10,802.89
Mar. 28, 1904	Sept. 1, 1908	High Pressure Water	1933	4 %	2 %	100,000.00	10,802.89
Apr. 16, 1908	Mar. 1, 1909	Water	1939	4 %	2 %	100,000.00	10,802.89
Apr. 16, 1908	Nov. 15, 1909	Water	1939	4 %	2 %	100,000.00	8,477.48
Apr. 16, 1908	April 1, 1910	Water	1940	4 %	2 %	100,000.00	8,477.48
Apr. 16, 1908	Sept. 1, 1910	Water	1940	4 %	2 %	100,000.00	6,236.46
Mar. 24, 1906	May 1, 1911	Fire and Police Departments Building	1941	4 %	2 %	350,000.00	18,043.49
Apr. 11, 1910	May 1, 1911	Bath House	1941	4 %	2 %	125,000.00	6,444.10
May 1, 1911	Nov. 1, 1911	Playgrounds	1941	4 %	2 %	75,000.00	3,057.73
Apr. 16, 1908	April 1, 1911	Water	1941	4 %	2 %	100,000.00	4,077.62
Apr. 16, 1908	April 1, 1911	Water	1941	4 %	2 %	100,000.00	4,077.62
Apr. 7, 1903	April 1, 1912	City Hospital	1942	4 %	2 %	150,000.00	3,000.00
Apr. 16, 1908	June 1, 1912	Water	1942	4 %	2 %	100,000.00	2,000.00
Apr. 7, 1903	Nov. 1, 1912	City Hospital	1942	4 %	2 %	150,000.00	3,000.00

Authorized by Act Approved	When Issued	Loan Known as	When Due	Interest	Sinking Fund	Amount	Amount in Sinking Fund
Oct. 19, 1903	Dec. 31, 1908	Schools	1943	4 %	1 %	267,000.00	28,331.96
Apr. 7, 1903	Mar. 1, 1913	City Hospital	1943	4¼%	2 %	500,000.00	
Apr. 16, 1908	June 1, 1913	Water	1943	4½%	2 %	100,000.00	
Apr. 1, 1912	Dec. 15, 1913	Market	1943	4½%	2½%	700,000.00	
Mar. 30, 1904	May 19, 1904	Track Elevation	1954	4 %	1 %	100,000.00	11,217.38
Mar. 30, 1904	Aug. 1, 1904	Track Elevation	1954	3½%	1 %	450,000.00	47,320.07
Oct. 19, 1903	April 1, 1905	Schools	1955	3½%	1 %	370,000.00	38,268.37
Feb. 25, 1902	April 1, 1905	Storage Reservoir	1955	3½%	1 %	1,950,000.00	205,089.25
Mar. 8, 1905	May 1, 1905	Funded Debt Water	1955	3½%	1 %	490,000.00	51,535.27
Oct. 19, 1903	July 1, 1905	Schools	1955	3½%	1 %	70,000.00	8,855.08
Mar. 30, 1904	Oct. 1, 1905	Track Elevation	1955	3½%	1 %	250,000.00	22,894.62
Oct. 21, 1907	Oct. 1, 1910	Dock	1955	4 %	1 %	100,000.00	3,116.80
Oct. 19, 1903	Nov. 1, 1905	Schools	1955	3½%	1 %	250,000.00	22,560.79
Oct. 19, 1903	April 1, 1906	Schools	1956	3½%	1 %	650,000.00	67,458.47
Oct. 19, 1903	Aug. 1, 1906	Schools	1956	3½%	1 %	65,000.00	5,872.72
Oct. 19, 1903	May 1, 1907	Schools	1957	4 %	1 %	1,165,500.00	90,276.16
Oct. 21, 1907	June 1, 1912	Dock	1957	4 %	1 %	100,000.00	1,000.00
Mar. 30, 1904	Sept. 1, 1908	Track Elevation	1958	4 %	1 %	172,000.00	9,279.07
Oct. 19, 1903	Oct. 1, 1908	Schools	1958	4 %	1 %	1,286,000.00	68,230.14
Oct. 19, 1903	Dec. 31, 1909	Schools	1959	4 %	1 %	1,289,700.00	54,627.64
Oct. 19, 1903	Sept. 1, 1911	Schools	1961	4 %	1 %	300,000.00	6,117.68
Mar. 18, 1907	Dec. 1, 1911	Passaic Valley Sewer	1961	4 %	1 %	1,120,000.00	22,746.06
Oct. 19, 1903	April 1, 1912	Schools	1962	4 %	1 %	561,000.00	5,610.00
Oct. 19, 1903	Oct. 1, 1912	Schools	1962	4 %	1 %	27,000.00	270.00
		Totals				$30,802,200.00	$8,899,728.76

BONDS	Issued	Sinking Fund	Net
Water	$13,377,000.00	$5,552,208.16	$7,824,791.84
Schools	7,448,200.00	900,905.70	6,547,294.30
City Hall	1,500,000.00	644,960.01	855,039.99
Track Elevation	1,472,000.00	252,614.01	1,219,385.99
Sewers	1,270,000.00	54,493.76	1,215,506.24
Free Library	350,000.00	160,653.66	189,346.34
Corporate	1,235,000.00	170,251.26	1,064,748.74
City Hospital	1,100,000.00	103,141.70	996,858.30
Street Openings	100,000.00	126,185.29	(Cr.) 26,185.29
Funded Debt City Improvement	1,500,000.00	902,653.09	597,346.91
Fire and Police	350,000.00	18,043.49	331,956.51
Bath House	125,000.00	6,444.10	118,555.90
Playgrounds	75,000.00	3,057.73	71,942.27
Docks	200,000.00	4,116.80	195,883.20
Markets	700,000.00	.....	700,000.00
	$30,802,200.00	$8,899,728.76	$21,902,471.24

YEAR	Real Estate	Personal	Indebtedness Sworn Off	Total	Rate
1882	$67,463,555.00	$17,989,370.00	$1,065,190.00	$84,387,735.00	$2.44
1883	70,959,940.00	18,739,295.00	1,203,185.00	88,496,050.00	2.06
1884	72,456,775.00	18,524,775.00	1,505,170.00	89,476,380.00	2.03
1885	74,189,010.00	18,730,160.00	1,419,888.00	91,499,282.00	1.93
1886	75,967,335.00	19,299,676.00	1,990,734.00	93,276,277.00	2.03
1887	77,362,460.00	19,354,129.00	1,626,036.00	95,090,553.00	2.02
1888	79,097,400.00	19,485,179.00	1,749,561.00	96,833,018.00	2.08
1889	82,011,340.00	20,193,264.00	1,789,147.00	100,415,457.00	2.02
1890	88,526,690.00	23,985,890.00	1,705,685.00	110,806,895.00	1.82
1891	93,548,730.00	25,772,364.00	1,892,409.00	117,428,685.00	1.82
1892	97,665,790.00	25,964,764.00	1,741,286.00	121,889,268.00	1.87
1893	102,412,335.00	27,285,668.00	1,822,869.00	127,875,135.00	1.82
1894	104,665,175.00	25,582,838.00	2,022,981.00	128,225,032.00	1.96
1895	106,012,950.00	25,587,787.00	1,514,950.00	130,085,787.00	1.98
1896	108,872,790.00	26,130,716.00	1,520,195.00	123,483,311.00	1.96
1897	111,273,650.00	27,275,464.00	1,506,573.00	137,042,541.00	1.98
1898	111,974,904.00	27,978,994.00	1,405,595.00	138,368,303.00	2.10
1899	116,585,525.00	29,072,213.00	1,302,727.00	144,355,011.00	2.12
1900	118,389,585.00	31,716,875.00	1,271,655.00	148,834,805.00	2.24
1901	129,832,105.00	28,753,530.00	1,264,951.00	157,320,684.00	2.14
1902	131,243,762.00	33,247,650.00	1,888,408.00	163,303,004.00	2.22
1903	133,458,897.00	35,393,394.00	1,261,846.00	167,590,445.00	2.32
1904	138,405,027.00	35,342,378.00	1,371,670.00	172,375,735.00	2.27
1905	153,006,055.00	38,724,597.00	1,461,935.00	190,268,717.00	2.26
1906	239,801,926.00	47,749,229.00	2,647,925.00	284,903,230.00	1.74
1907	246,614,181.00	51,815,061.00	2,641,319.00	295,787,923.00	1.69
1908	254,865,056.00	333,630,049.00	292,714,312.00	295,780,793.00	1.63
1909	263,424,412.00	67,410,284.00	2,908,596.00	327,926,050.00	1.91
1910	274,326,398.00	73,778,818.00	3,283,516.00	344,812,700.00	1.93
1911	288,482,718.00	78,014,003.00	2,628,107.00	363,868,614.00	1.97
1912	303,667,111.00	82,654,518.00	2,457,447.00	383,864,182.00	2.04
1913	339,378,767.00	56,427,242.00	1,504,815.00	394,301,194.00	2.02

ANNUAL REPORT

OF THE

CITY TREASURER

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

City Treasurer's Report

To the Honorable, the Mayor and Common Council:

GENTLEMEN—I herewith present the statement of receipts and expenditures of the city for the year ending December 31st, 1913.

Respectfully,

ELMER A. DAY,
City Treasurer.

CASH BOOK CONSOLIDATED.

The following is a statement of receipts showing source and from whence derived. For a more detailed account I refer you to the monthly reports heretofore made and which are made a part hereof.

RECEIPTS.

To cash balance Dec. 31st, 1912.....		$1,310,978.35
To cash received from Comptroller of the City—		
For the month of January.....	$2,600,347.54	
" February ...	2,461,702.30	
" March	1,488,378.60	
" April	4,086,828.94	

For the month of	May	3,891,447.19
"	June	1,152,072.97
"	July	583,087.69
"	August	1,748,725.46
"	September ..	2,739,478.86
"	October	4,861,457.83
"	November ..	2,993,060.37
"	December ...	3,478,825.12
		$32,085,412.87

The statement below comprises the total expenditures for each month during the year 1913.

DISBURSEMENTS

Amount paid in	January.....	$2,776,913.08
"	February ...	1,468,871.69
"	March	1,677,089.93
"	April	2,416,702.95
"	May	4,261,937.82
"	June	1,335,592.35
"	July	1,571,274.18
"	August	1,902,912.42
"	September ..	3,236,736.57
"	October	2,939,939.33
"	November ..	3,691,199.50
"	December ...	4,200,705.93
		$31,479,875.75

STATEMENT.

Showing the amount disbursed during each month, and to what account charged on the books of this office.

GENERAL WARRANTS.

Amount paid in	January.....	$126,896.61	
"	February ...	210,241.50	
"	March	793,683.95	
"	April	169,470.30	
"	May	272,763.59	
"	June	267,024.40	
"	July	858,355.87	
"	August	153,716.25	
"	September ..	331,653.75	
"	October	140,697.43	
"	November ..	416,704.98	
"	December ...	1,001,485.49	
			$4,742,694.12

GENERAL WARRANTS.

SALARIES.

Amount paid in	January.....	$37,482.69	
"	February ...	37,705.24	
"	March	37,778.71	
"	April	38,356.29	
"	May	38,274.45	
"	June	38,500.46	
"	July	38,553.16	
"	August	38,367.46	
"	September ..	38,347.41	
"	October	38,317.98	
"	November ..	38,412.88	
"	December ...	38,534.15	
			$458,630.88

BOARD OF STREET AND WATER COMMISSIONERS.

Amount paid in	January.....	$149,536.61	
"	February ...	144,658.78	
"	March	139,531.55	
"	April	146,775.75	
"	May	171,913.38	
"	June	158,633.54	
"	July	266,595.31	
"	August	202,128.87	
"	September ..	127,853.14	
"	October	173,901.27	
"	November ..	234,990.26	
"	December ...	148,667.57	
			$2,065,186.03

BOARD OF STREET AND WATER COMMISSIONERS.

SALARIES.

Amount paid in	January.....	$10,882.27	
"	February ...	10,402.78	
"	March	10,369.15	
"	April	10,420.52	
"	May	10,313.02	
"	June	10,425.52	
"	July	10,317.28	
"	August	10,237.02	
"	September ..	10,215.79	
"	October	10,403.70	
"	November ...	10,150.26	
"	December ...	9,794.20	
			$123,931.51

BOARD OF STREET AND WATER COMMISSIONERS.

DEPARTMENT OF WATER.

Amount paid in	January.....	$142.667.04	
"	February ...	58,262.34	
"	March	91,413.12	
"	April	248,411.12	
"	May	53,375.22	
"	June	54,774.39	
"	July	151,154.03	
"	August	63,871.53	
"	September ..	106,297.42	
"	October	286,291.50	
"	November ..	80,028.81	
"	December ...	76,166.11	
			$1,412,712.63

BOARD OF STREET AND WATER COMMISSIONERS.

DEPARTMENT OF WATER (SALARIES).

Amount paid in	January.....	$7,805.29	
"	February ...	7,725.09	
"	March	7,761.04	
"	April	7,695.15	
"	May	7,483.88	
"	June	7,483.88	
"	July	7,441.88	
"	August	7,454.04	
"	September ..	7,677.28	
"	October	7,605.12	
"	November ..	7,500.54	
"	December ...	7,587.20	
			$91,220.39

BOARD OF STREET AND WATER COMMISSIONERS.

WATER SHED EXTENSION.

Amount paid in	January.....	$17,750.00	
"	February ...	.....	
"	March	2,637.71	
"	April	1,518.91	
"	May	.....	
"	June	.....	
"	July	13,930.85	
"	August	.....	
"	September ..	55,000.00	
"	October	11,000.00	
"	November ..	4,300.00	
"	December ...	.....	
			$106,137.47

CITY HOME WARRANTS.

Amount paid in	January.....	$1,778.32	
"	February ...	2,594.52	
"	March	4,923.95	
"	April	4,583.48	
"	May	2,740.38	
"	June	1,584.30	
"	July	1,746.00	
"	August	2,356.14	
"	September ..	1,625.97	
"	October	4,502.26	
"	November ..	2,833.56	
"	December ..	2,119.27	
			$33,388.15

CITY HOME WARRANTS.

SALARIES.

Amount paid in	January.....	$1,769.90	
"	February ...	1,769.90	
"	March	1,769.90	
"	April	1,735.87	
"	May	1,900.87	
"	June	1,802.40	
"	July	1,841.76	
"	August	1,894.04	
"	September ..	1,894.04	
"	October	1,894.04	
"	November ..	1,869.04	
"	December ...	1,826.54	
			$21,968.30

BOARD OF HEALTH, SANITARY DEPARTMENT.

Amount paid in	January.....	$3,985.20	
"	February ...	5,114.66	
"	March	3,681.21	
"	April	4,405.49	
"	May	4,210.53	
"	June	4,263.13	
"	July	3,288.82	
"	August	4,181.53	
"	September ..	3,678.43	
"	October	5,387.53	
"	November ..	3,309.96	
"	December ...	4,531.45	
			$50,037.94

BOARD OF HEALTH, SANITARY DEPARTMENT.

SALARIES.

Amount paid in	January.....	$9,444.65	
"	February ...	9,432.18	
"	March	9,439.68	
"	April	9,436.48	
"	May	9,439.68	
"	June	9,439.68	
"	July	9,484.84	
"	August	9,323.18	
"	September ..	9,087.77	
"	October	9,003.86	
"	November ..	9,128.85	
"	December ...	9,087.18	
			$111,748.03

BOARD OF HEALTH, CITY HOSPITAL.

WARRANTS.

Amount paid in	January.....	$8,613.86	
"	February ...	9,954.96	
"	March	11,228.66	
"	April	9,832.49	
"	May	10,655.26	
"	June	10,830.31	
"	July	11,156.28	
"	August	9,167.92	
"	September ..	9,534.31	
"	October	9,554.42	
"	November ..	9,245.71	
"	December ...	10,110.21	
			$119,884.39

BOARD OF HEALTH, CITY HOSPITAL.

SALARIES.

Amount paid in	January.....	$5,175.66	
"	February ...	5,221.82	
"	March	5,221.08	
"	April	5,174.56	
"	May	5,353.46	
"	June	5,261.39	
"	July	5,313.90	
"	August	5,393.35	
"	September ..	5,439.69	
"	October	5,422.45	
"	November ..	5,388.44	
"	December ...	5,369.44	
			$63,735.24

FIRE DEPARTMENT.

Amount paid in	January.....	$15,879.92	
"	February ...	7,741.90	
"	March	7,694.20	
"	April	6,878.71	
"	May	13,056.79	
"	June	7,722.70	
"	July	9,861.82	
"	August	8,512.82	
"	September ..	7,809.21	
"	October	31,462.27	
"	November ..	20,869.08	
"	December ...	12,487.75	
			$149,977.17

FIRE DEPARTMENT.

SALARIES.

Amount paid in	January.....	$45,769.57	
"	February ...	45,604.15	
"	March	45,841.74	
"	April	46,159.20	
"	May	46,191.77	
"	June	46,321.64	
"	July	46,439.12	
"	August	46,740.36	
"	September ..	46,709.89	
"	October	47,190.44	
"	November ..	47,331.94	
"	December ...	47,528.83	
			$557,828.65

POLICE DEPARTMENT.

Amount paid in	January.....	$4,410.81	
"	February ...	4,471.12	
"	March	2,360.18	
"	April	3,882.35	
"	May	3,003.87	
"	June	3,541.40	
"	July	9,625.55	
"	August	8,343.91	
"	September ..	4,509.09	
"	October	2,401.73	
"	November ..	2,254.34	
"	December ...	4,772.32	
			$53,576.67

POLICE DEPARTMENT.

SALARIES.

Amount paid in	January.....	$74,776.60	
"	February ...	74,531.50	
"	March	74,760.81	
"	April	74,646.33	
"	May.....	75,283.80	
"	June	75,317.70	
"	July	75,893.02	
"	August	76,014.53	
"	September ..	76,008.09	
"	October	76,198.43	
"	November ..	76,240.65	
"	December ...	76,496.16	
			$906,167.62

TEMPORARY LOAN BONDS.

Amount paid in	January.....	$545,000.00	
"	February ...	809,000.00	
"	March	400,000.00	
"	April	1,575,000.00	
"	May	3,440.000.00	
"	June	600,000.00	
"	July	20,000.00	
"	August	1,195,000.00	
"	September ..	2,325,000.00	
"	October	2,035,000.00	
"	November ..	2,640,000.00	
"	December ...	1,635,000.00	
			$17,219,000.00

REDEMPTION ACCOUNT.

Amount paid in	January.....	$5,076.17	
"	February ...	8,103.16	
"	March	16,872.25	
"	April	12,484.45	
"	May	11,983.90	
"	June	9,012.24	
"	July	11,835.60	
"	August	6,970.99	
"	September ..	8,516.25	
"	October	8,356.19	
"	November ..	6,096.89	
"	December ...	17,603.38	
			$122,911.47

SURPLUS ACCOUNT, MARTIN ACT.

Amount paid in	January.....	$773.95	
"	February ...	813.40	
"	March	206.75	
"	April	420.10	
"	May	1,480.15	
"	June	13.55	
"	July	38.84	
"	August	172.80	
"	September ..	120.45	
"	October	161.13	
"	November ..	43.34	
"	December ...	146.51	
			$4,390.97

SHADE TREE COMMISSION.

Amount paid in	January.....	$7,092.71	
"	February ...	3,229.47	
"	March	2,933.08	
"	April	5,564.71	
"	May	7,794.49	
"	June	3,646.83	
"	July	4,469.37	
"	August	11,270.69	
"	September ..	3,087.37	
"	October	3,499.42	
"	November ..	6,067.32	
"	December ...	5,229.59	
			$63,885.05

SHADE TREE COMMISSION.

SALARIES.

Amount paid in	January.....	$337.72	
"	February ...	349.98	
"	March	349.98	
"	April	349.98	
"	May	349.98	
"	June	349.98	
"	July	349.98	
"	August	254.15	
"	September ..	349.98	
"	October	349.98	
"	November ..	349.98	
"	December ...	349.98	
			$4,091.67

COUNTY COLLECTOR.

Amount paid in	January.....	$1,546,973.52	
"	December ...	1,034,369.30	
			$2,581,342.82

PLAYGROUND COMMISSION.

Amount paid in	January.....	.....	
"	February ...	$119.91	
"	March	442.87	
"	April	4,090.91	
"	May	2,202.36	
"	June	49.11	
"	July	1,149.54	
"	August	1,577.59	
"	September ..	3,352.05	
"	October	712.38	
"	November ..	2,249.23	
"	December ...	2,361.07	
			$18,307.02

PLAYGROUND COMMISSION.

SALARIES.

Amount paid in	January.....	$397.90
"	February ...	505.77
"	March	629.33
"	April	1,177.16
"	May	1,429.49
"	June	1,707.68
"	July	1,905.08

PLAYGROUND COMMISSION—*Continued.*

SALARIES.

Amount paid in	August	2,612.37	
"	September ..	2,907.81	
"	October	2,708.03	
"	November ..	2,659.05	
"	December ...	2,357.11	
			$20,996.78

PUBLIC BATHS.

Amount paid in	January.....	.....	
"	February ...	.....	
"	March	.....	
"	April	.....	
"	May	.....	
"	June	$8,549.60	
"	July	9,091.78	
"	August	10,914.88	
"	September ..	917.47	
"	October	814.54	
"	November ..	906.82	
"	December ...	20,734.45	
			$51,929.54

PUBLIC BATHS.

SALARIES.

Amount paid in	January.....	.....
"	February ...	.....
"	March	.....
"	April	.....

PUBLIC BATHS—*Continued.*

SALARIES.

Amount paid in	May	.....	
"	June	$836.51	
"	July	1,034.50	
"	August	1,098.50	
"	September ..	1,310.58	
"	October	2,035.16	
"	November ..	1,959.00	
"	December ...	1,661.50	
			$9,935.75

TEMPORARY LOAN BONDS.

INTEREST.

Amount paid in	January.....	$6,636.11	
"	February ...	11,317.56	
"	March	5,559.03	
"	April	28,232.64	
"	May	70,737.50	
"	June	8,500.01	
"	July	400.00	
"	August	25,337.50	
"	September ..	47,833.33	
"	October	25,068.07	
"	November ..	60,308.57	
"	December ...	24,329.17	
			$314,259.49

RECAPITULATION OF DISBURSEMENTS.

General Warrants	$5,201,325.00
Police	959,744.29
Fire	707,805.82
Temporary Loans	17,219,000.00
Redemption Account	122,911.47
Purchaser's Surplus (Martin Act)	4,390.97
Temporary Loan Bonds, Int.	314,259.49
County Collector	2,581,342.82
Board Street and Water Commissioners	3,799,188.03
City Home	55,356.45
Board of Health—	
City Hospital	183,619.63
Sanitary Department	161,785.97
Shade Tree Commission	67,976.72
Playground Commission	39,303.80
Public Baths	61,865.29
	$31,479,875.75

STATEMENT.

DR.

To Cash Balance Dec. 31st, 1912	$1,310,978.35
To Cash Receipts Dec. 31st, 1913	32,085,412.87
	$33,396,391.22

CR.

By Cash Disbursements, 1913	$31,479,875.75
By Cash Balance, Dec. 31st, 1913	1,916,515.47
	$33,396,391.22

Respectfully,

ELMER A. DAY,
City Treasurer.

ANNUAL REPORT

COMMISSIONERS

OF THE

SINKING FUND

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

COMMISSIONERS OF THE SINKING FUND

FOR THE YEAR 1913

To the Honorable Common Council of the City of Newark:

In pursuance of the requirements of the law, the undersigned, the Commissioners of the Sinking Fund of 1864, of the City of Newark, N. J., have the honor to submit their report of the condition of the same for the year ending November 30, 1913, as follows:

BONDS

Payable by the Commissioners of the Sinking Fund of 1864 of the City of Newark, N. J.

SECURITIES	Act Approved	Date of Issue	Rate of Interest	Payable	Amount of Issue	Amount of Fund
Vailsburgh School Bonds (one bond maturing each year until 1920)	Mar. 27, 1874	July 1, 1900	4%	July 1, 1914	$ 7,000.00	$ 1,277.83
Water Bonds	Mar. 6, 1884	Oct. 1, 1884	4%	Oct. 1, 1914	30,000.00	38,542.59
Water Bonds	Mar. 6, 1884	Feb. 1, 1885	4½%	Feb. 1, 1915	200,000.00	235,427.94
Street Opening Bonds	Mar. 17, 1892	Aug. 5, 1895	4%	Aug. 1, 1915	100,000.00	126,185.29
Water Bonds	Mar. 26, 1888	Aug. 21, 1895	4%	Aug. 21, 1915	40,000.00	29,912.03
Water Bonds	Mar. 6, 1884	Oct. 31, 1885	4½%	Oct. 31, 1915	15,000.00	17,673.11
High School Bonds	Feb. 11, 1895	June 1, 1896	4%	June 1, 1916	100,000.00	89,567.13
Water Bonds	Mar. 6, 1884	Aug. 1, 1886	4%	Aug. 1, 1916	12,000.00	12,842.21
Water Bonds	Mar. 26, 1888	Oct. 20, 1896	4%	Oct. 20, 1916	40,000.00	27,725.81
Water Bonds	Mar. 6, 1884	April 1, 1887	4%	April 1, 1917	15,000.00	14,905.01
High School Bonds	Feb. 11, 1895	Oct. 1, 1897	3.35%	Oct. 1, 1917	200,000.00	136,670.21
Water Bonds	Mar. 6, 1884	Mar. 1, 1888	4½%	Mar. 1, 1918	20,000.00	18,415.00
School Bonds	Feb. 24, 1898	Aug. 8, 1898	4%	Aug. 8, 1918	100,000.00	60,360.66
Water Bonds	May 18, 1898	Oct. 12, 1899	4%	Oct. 12, 1919	20,000.00	10,804.79
Water Bonds	May 18, 1898	Aug. 1, 1900	4%	Aug. 1, 1920	20,000.00	9,855.50
Water Bonds	May 18, 1898	Sept. 1, 1901	4%	Sept. 1, 1921	20,000.00	8,922.88
Funded Debt Water Bonds	May 14, 1889	Feb. 1, 1892	4%	Feb. 1, 1922	2,450,000.00	1,510,806.90
New Supply Water Bonds	May 14, 1889	May 1, 1892	4%	May 1, 1922	6,000,000.00	3,123,658.19
Water Bonds	May 18, 1898	Oct. 1, 1902	4%	Oct. 1, 1922	30,000.00	12,028.45
Funded Debt City Improvement Bonds	June 9, 1890	Mar. 15, 1893	4%	Mar. 15, 1923	1,500,000.00	902,653.09
Water Bonds	May 18, 1898	July 1, 1903	4%	July 1, 1923	50,000.00	11,376.51
Refunding Corporate Bonds	Mar. 4, 1902	July 1, 1908	4%	July 1, 1923	130,000.00	42,510.26
Water Bonds	May 18, 1898	May 1, 1905	4%	May 1, 1925	50,000.00	15,776.08
Refunding Corporate Bonds	Mar. 4, 1902	June 1, 1910	4%	June 1, 1925	75,000.00	15,693.19
Free Library Bonds	Mar. 16, 1896	June 1, 1897	4%	June 1, 1927	300,000.00	142,870.45
Funded Debt Water Bonds	May 14, 1889	Aug. 1, 1897	4%	Aug. 1, 1927	100,000.00	42,694.59
Vailsburg Water Bonds	April 24, 1897	Oct. 1, 1898	4½%	Oct. 1, 1928	20,000.00	6,074.54
Water Bonds	Mar. 26, 1888	Nov. 16, 1908	4%	Nov. 16, 1928	50,000.00	9,452.51
Funded Debt Water Bonds	Mar. 8, 1905	May 1, 1909	4%	May 1, 1929	100,000.00	18,905.94
School Bonds	Mar. 23, 1899	Dec. 1, 1899	3½%	Dec. 1, 1929	300,000.00	110,677.46

BONDS

Payable by the Commissioners of the Sinking Fund of 1864 of the City of Newark, N. J.—*Continued.*

SECURITIES	Act Approved	Date of Issue	Rate of Interest	Payable	Amount of Issue	Amount of Fund
High Pressure Water Bonds	Mar. 28, 1904	Mar. 1, 1910	4%	Mar. 1, 1930	50,000.00	7,417.80
Water Bonds	Mar. 26, 1888	Mar. 1, 1910	4%	Mar. 1, 1930	50,000.00	7,417.50
Corporate Bonds	April 12, 1910	July 1, 1910	4%	July 1, 1930	1,030,000.00	112,047.81
Free Library Bonds	Mar. 19, 1900	Jan. 1, 1901	3½%	Jan. 1, 1931	50,000.00	17,783.21
New City Hall Bonds	April 15, 1887	Jan. 1, 1901	3½%	Jan. 1, 1931	1,000,000.00	482,404.42
High Pressure Water Bonds	Mar. 28, 1904	May 1, 1911	4%	May 1, 1931	100,000.00	7,135.84
Water Bonds	Mar. 26, 1888	May 1, 1911	4%	May 1, 1931	50,000.00	3,567.92
New City Hospital Bonds	May 17, 1894	Jan. 1, 1902	3½%	Jan. 1, 1932	300,000.00	97,141.70
Track Elevation Bonds	Mar. 23, 1900	Jan. 1, 1902	3½%	Jan. 1, 1932	500,000.00	161,902.87
High Pressure Water Bonds	Mar. 28, 1904	May 1, 1912	4%	May 1, 1932	25,000.00	1,329.48
Water Bonds	Mar. 26, 1888	June 1, 1912	4%	June 1, 1932	50,000.00	1,750.00
New City Hall Bonds	April 15, 1887	Oct. 1, 1902	3½%	Oct. 1, 1932	500,000.00	162,555.59
School Bonds	April 22, 1902	Oct. 1, 1902	3½%	Oct. 1, 1932	100,000.00	26,118.13
High Pressure Water Bonds	Mar. 28, 1904	Mar. 1, 1913	4¼%	Mar. 1, 1933	50,000.00	875.00
Water Bonds	April 6, 1911	Mar. 1, 1913	4¼%	Mar. 1, 1933	200,000.00	3,500.00
School Bonds	Mar. 26, 1902	May 1, 1903	3½%	May 1, 1933	100,000.00	24,738.24
School Bonds	Mar. 26, 1902	June 24, 1903	3½%	June 24, 1933	15,000.00	4,054.99
Vailsburgh School Bonds	Oct. 19, 1903	Nov. 1, 1903	4½%	Nov. 1, 1933	25,000.00	6,978.13
Vailsburgh Sewer Bonds	Mar. 15, 1899	Jan. 1, 1904	4½%	Jan. 1, 1934	140,000.00	29,987.61
School Bonds	Oct. 19, 1903	April 1, 1904	4%	April 1, 1934	200,000.00	44,043.91
High Pressure Water Bonds	Mar. 28, 1904	Aug. 1, 1904	3½%	Aug. 1, 1934	100,000.00	21,034.79
Vailsburgh Sewer Bonds	Mar. 15, 1899	Oct. 1, 1904	4½%	Oct. 1, 1924	10,000.00	1,760.00
Water Bonds	April 16, 1908	Aug. 1, 1908	4%	Aug. 1, 1938	100,000.00	10,802.89
High Pressure Water Bonds	Mar. 28, 1904	Sept. 1, 1908	4%	Sept. 1, 1938	100,000.00	10,802.89
Water Bonds	April 16, 1908	Mar. 1, 1909	4%	Mar. 1, 1939	100,000.00	10,802.89
Water Bonds	April 16, 1908	Nov. 15, 1909	4%	Nov. 15, 1939	100,000.00	8,477.48
Water Bonds	April 16, 1908	April 1, 1910	4%	April 1, 1940	100,000.00	8,477.48
Water Bonds	April 16, 1908	Sept. 1, 1910	4%	Sept. 1, 1940	100,000.00	6,236.46
Water Bonds	April 16, 1908	April 1, 1911	4%	April 1, 1941	100,000.00	4,077.62
Fire and Police Building Bonds	Mar. 24, 1906	May 1, 1911	4%	May 1, 1941	350,000.00	18,043.49

BONDS

Payable by the Commissioners of the Sinking Fund of 1864 of the City of Newark, N. J.—*Continued.*

SECURITIES	Act Approved	Date of Issue	Rate of Interest	Payable	Amount of Issue	Amount of Fund
Bath House Bonds	April 11, 1910	May 1, 1911	4%	May 1, 1941	125,000.00	6,444.10
Water Bonds	April 16, 1908	Aug. 1, 1911	4%	Aug. 1, 1941	100,000.00	4,077.62
Play Ground Bonds	May 1, 1911	Nov. 1, 1911	4%	Nov. 1, 1941	75,000.00	3,057.73
New City Hospital Bonds	April 7, 1903	April 1, 1912	4%	April 1, 1942	150,000.00	3,000.00
Water Bonds	April 16, 1908	June 1, 1912	4%	June 1, 1942	100,000.00	2,600.00
New City Hospital Bonds	April 7, 1903	Nov. 1, 1912	4%	Nov. 1, 1942	150,000.00	3,000.00
School Bonds	Oct. 19, 1903	Dec. 31, 1908	4%	Dec. 31, 1943	267,000.00	28,331.96
Track Elevation Bonds	Mar. 30, 1904	May 19, 1904	4%	May 19, 1954	100,000.00	11,217.38
Track Elevation Bonds	Mar. 30, 1904	Aug. 1, 1904	3½%	Aug. 1, 1954	450,000.00	47,320.07
School Bonds	Oct. 19, 1903	April 1, 1905	3½%	April 1, 1955	370,000.00	38,268.37
Storage Reservoir Bonds	Feb. 25, 1892	April 1, 1905	3½%	April 1, 1955	1,950,000.00	205,089.25
Funded Debt Water Bonds	Mar. 8, 1905	May 1, 1905	3½%	May 1, 1955	490,000.00	51,535.27
School Bonds	Oct. 19, 1903	July 1, 1905	3½%	July 1, 1955	70,000.00	8,855.08
Track Elevation Bonds	Mar. 30, 1904	Oct. 2, 1905	3½%	Oct. 1, 1955	250,000.00	22,894.62
Dock Bonds	Oct. 21, 1907	Oct. 1, 1910	4%	Oct. 1, 1955	100,000.00	3,116.80
School Bonds	Oct. 19, 1903	Nov. 1, 1905	3½%	Nov. 1, 1955	250,000.00	22,560.79
School Bonds	Oct. 19, 1903	April 1, 1906	3½%	April 1, 1956	650,000.00	67,458.47
School Bonds	Oct. 19, 1903	Aug. 1, 1906	3½%	Aug. 1, 1956	65,000.00	5,872.72
School Bonds	Oct. 19, 1903	May 1, 1907	4%	May 1, 1957	1,165,500.00	90,276.16
Dock Bonds	Oct. 21, 1907	June 1, 1912	4%	June 1, 1957	100,000.00	1,000.00
Track Elevation Bonds	Mar. 30, 1904	Sept. 1, 1908	4%	Sept. 1, 1958	172,000.00	9,279.07
School Bonds	Oct. 19, 1903	Oct. 1, 1908	4%	Oct. 1, 1958	1,286,000.00	68,230.14
School Bonds	Oct. 19, 1903	Dec. 31, 1909	4%	Dec. 31, 1959	1,289,700.00	54,627.64
School Bonds	Oct. 19, 1903	Sept. 1, 1911	4%	Sept. 1, 1961	300,000.00	6,117.68
Passaic Valley Sewerage Bonds	Mar. 18, 1907	Dec. 1, 1911	4%	Dec. 1, 1961	1,120,000.00	22,746.06
School Bonds	Oct. 19, 1903	April 1, 1912	4%	April 1, 1962	561,000.00	5,610.00
School Bonds	Oct. 19, 1903	Oct. 1, 1912	4%	Oct. 1, 1962	27,000.00	270.00
						$8,899,728.76

SECURITIES
Held by the Commissioners of the Sinking Fund of 1864 of the City of Newark, N. J.

SECURITIES	Rate of Interest	Date of Issue	When Due	Amount
Newark City Water Bonds	4%	Oct. 1, 1884	Oct. 1, 1914	$ 20,000.00
Newark City Water Bonds	4%	Oct. 20, 1896	Oct. 20, 1916	40,000.00
Newark City Water Bonds	4%	Oct. 18, 1899	Oct. 18, 1919	20,000.00
Newark City Water Bonds	4%	Aug. 1, 1900	Aug. 1, 1920	20,000.00
Newark City Water Bonds	4%	April 1, 1887	April 1, 1917	15,000.00
Newark City Water Bonds	4%	Sept. 3, 1901	Sept. 1, 1921	20,000.00
Newark City Water Bonds	4%	Oct. 1, 1902	Oct. 1, 1922	30,000.00
Newark City Water Bonds	4%	July 1, 1903	July 1, 1923	30,000.00
Newark City Water Bonds	4%	May 1, 1905	May 1, 1925	50,000.00
Newark City Water Bonds	4%	Aug. 1, 1908	Aug. 1, 1938	100,000.00
Newark City Water Bonds	4%	Nov. 16, 1908	Nov. 16, 1928	50,000.00
Newark City Water Bonds	4%	Mar. 1, 1909	Mar. 1, 1939	100,000.00
Newark City Water Bonds	4%	Nov. 15, 1909	Nov. 15, 1939	100,000.00
Newark City Water Bonds	4%	Mar. 1, 1910	Mar. 1, 1930	50,000.00
Newark City Water Bonds	4%	April 1, 1910	April 1, 1940	100,000.00
Newark City Water Bonds	4%	Sept. 1, 1910	Sept. 1, 1940	100,000.00
Newark City Water Bonds	4%	Aug. 1, 1911	Aug. 1, 1941	100,000.00
Newark City Water Bonds	4%	June 1, 1912	June 1, 1932	50,000.00
Newark City Water Bonds	4%	June 1, 1912	June 1, 1942	100,000.00
Newark City Water Bonds	4¼%	Mar. 1, 1913	Mar. 1, 1933	200,000.00
Newark City Water Bonds	4½%	June 1, 1913	June 1, 1943	100,000.00
Newark City High Pressure Water Bonds	4%	Sept. 1, 1908	Sept. 1, 1938	100,000.00
Newark City High Pressure Water Bonds	4%	Mar. 1, 1910	Mar. 1, 1930	50,000.00
Newark City High Pressure Water Bonds	4%	May 1, 1912	May 1, 1932	25,000.00
Newark City High Pressure Water Bonds	4¼%	Mar. 1, 1913	Mar. 1, 1933	50,000.00
Newark City Funded Debt Water Bonds	4%	Feb. 1, 1892	Feb. 1, 1922	268,900.00
Newark City Funded Debt Water Bonds, par $13,000 cost	4%	Feb. 1, 1892	Feb. 1, 1922	12,870.00
Newark City Funded Debt Water Bonds	4%	Aug. 1, 1897	Aug. 1, 1927	100,000.00
Newark City Funded Debt Water Bonds	4%	May 1, 1909	May 1, 1929	100,000.00
Newark City New Supply Water Bonds	4%	May 1, 1892	May 1, 1922	375,000.00

SECURITIES

Held by the Commissioners of the Sinking Fund of 1864 of the City of Newark, N. J.—*Continued.*

SECURITIES	Rate of Interest	Date of Issue	When Due	Amount
Newark City New Supply Water Bonds, par $1,000 cost	4%	May 1, 1892	May 1, 1922	990.00
Chicago, Burlington & Quincy R. R. Bonds, par $23,000 cost	4%	Mar. 2, 1908	Mar. 1, 1958	22,964.06
Newark City Funded Debt City Improvement Bonds	4%	Mar. 15, 1893	Mar. 15, 1923	500,000.00
Newark City Street Opening Bonds	4%	Aug. 5, 1895	Aug. 1, 1915	100,000.00
Newark City High School Bonds	4%	June 1, 1896	June 1, 1916	100,000.00
Newark City High School Bonds	3.35%	Oct. 1, 1897	Oct. 1, 1917	65,000.00
Newark City High School Bonds, par $50,000 cost	3.35%	Oct. 1, 1897	Oct. 1, 1917	48,265.00
Newark City School Bonds	4%	Aug. 8, 1898	Aug. 8, 1918	100,000.00
Newark City School Bonds	3½%	Oct. 1, 1902	Oct. 1, 1932	100,000.00
Newark City School Bonds	3½%	May 1, 1903	May 1, 1933	100,000.00
Newark City School Bonds	3½%	June 24, 1903	June 24, 1933	15,000.00
Newark City School Bonds	3½%	July 1, 1905	July 1, 1955	70,000.00
Newark City School Bonds	3½%	Nov. 1, 1905	Nov. 1, 1955	235,000.00
Newark City School Bonds	3½%	April 1, 1906	April 1, 1956	650,000.00
Newark City School Bonds	3½%	Aug. 1, 1906	Aug. 1, 1956	65,000.00
Newark City School Bonds	4%	Dec. 31, 1908	Dec. 31, 1943	267,000.00
Newark City School Bonds	4%	Dec. 31, 1909	Dec. 31, 1959	169,700.00
Newark City School Bonds	4%	April 1, 1912	April 1, 1962	561,000.00
Newark City School Bonds	4%	Oct. 1, 1912	Oct. 1, 1962	27,000.00
Newark City School Bonds, par $18,000 cost	4%	May 1, 1907	May 1, 1957	17,820.00
Essex County Park Bonds	4%	Aug. 1, 1896	Aug. 1, 1926	165,000.00
Essex County Park Bonds	3.65%	Aug. 1, 1895	Aug. 1, 1930	118,000.00
Essex County Court House Bonds	4%	Aug. 1, 1902	Aug. 1, 1940	45,000.00
Newark City Free Library Bonds	3½%	Jan. 1, 1901	Jan. 1, 1931	50,000.00
Vailsburgh Sewer Bonds	4½%	Jan. 1, 1904	Jan. 1, 1934	60,000.00
Newark City Track Elevation Bonds	3½%	Aug. 1, 1904	Aug. 1, 1954	150,000.00
Newark City Track Elevation Bonds	3½%	Oct. 2, 1905	Oct. 1, 1955	250,000.00
Newark City New City Hall Bonds	3½%	Jan. 1, 1901	Jan. 1, 1931	500,000.00
Newark City New City Hall Bonds	3½%	Oct. 1, 1902	Oct. 1, 1932	350,000.00
Newark City Refunding Corporate Bonds	4%	July 1, 1908	July 1, 1923	130,000.00

SECURITIES

Held by the Commissioners of the Sinking Fund of 1864 of the City of Newark, N. J.—*Continued.*

SECURITIES	Rate of Interest	Date of Issue	When Due	Amount
Newark City Refunding Corporate Bonds	4%	June 1, 1910	June 1, 1925	75,000.00
Newark City Corporate Bonds	4%	July 1, 1910	July 1, 1930	250,000.00
Newark City Corporate Bonds, par $29,000 cost	4%	July 1, 1910	July 1, 1930	28,782.50
Newark City Bath House Bonds	4%	May 1, 1911	May 1, 1941	125,000.00
Newark City Play Ground Bonds	4%	Nov. 1, 1911	Nov. 1, 1941	75,000.00
Newark City Hospital Bonds	4%	April 1, 1912	April 1, 1942	150,000.00
Newark City Hospital Bonds	4%	Nov. 1, 1912	Nov. 1, 1942	150,000.00
Newark City Hospital Bonds	4¼%	Mar. 1, 1913	Mar. 1, 1943	500,000.00
Cash	.....	.....	.....	36,437.20
				$8,899,728.76

RECEIPTS.

Cash on hand December 1, 1912		$ 63,713.30
Interest on Securities	$ 327,972.67	
From City for Interest on Water Bonds	518,067.50	
Tax Levy from City Treasurer	905,600.00	
From City Sinking Fund on Vailsburgh Sewer Bonds	12,497.23	
From City for Sinking Fund on Water Bonds	246,950.00	
Tax Arrearage Bonds, 1903	57,000.00	
From City Deficiency Vailsburgh Water Bonds, 1898	5,783.33	
From City Deficiency Water Bonds, 1893	7,256.04	
Water Bonds, 1893	55,000.00	
		2,136,126.77
		$ 2,199,840.07

DISBURSEMENTS.

For Interest	$ 1,164,488.08	
Purchase Funded Debt Water Bonds, 1892	12,870.00	
Purchase New Supply Water Bonds, 1892.	990.00	
Purchase City Hospital Bonds, 1913	500,000.00	
Purchase Water Bonds, 1913	200,000.00	
Purchase High Pressure Water Bonds, 1913	50,000.00	
Purchase Water Bonds, 1913	100,000.00	
Tax Arrearage Bonds, 1903, Matured	57,000.00	
Vailsburgh School Bond Matured	1,000.00	
Vailsburgh Water Bonds, 1898, Matured	20,000.00	
Water Bonds, 1893, Matured	55,000.00	
Expenses for the year	2,054.79	
		$ 2,163,402.87
Cash on hand, November 30, 1913		36,437.20
		$ 2,199,840.07

The Commissioners have paid during the year matured bonds as follows:

Tax Arrearage Bonds, issued July 1, 1902, due July 1, 1913	$ 57,000.00
Vailsburg School Bond, issued July 1, 1900, due July 1, 1913	1,000.00
Vailsburg Water Bonds, issued October 1, 1898, due October 1, 1913	20,000.00
Water Bonds, issued November 15, 1893, due November 15, 1913	55,000.00

The surplus in the fund for the redemption of Tax Arrearage Bonds, maturing July 1, 1913, amounting to $43,778.63, was transferred to the fund for the redemption of Street Opening Bonds, due August 1, 1915.

JOHN R. HARDIN,
FRED'K FRELINGHUYSEN,
MARCUS L. WARD,
JACOB HAUSSLING,
TYLER PARMLY.

ANNUAL REPORT

OF THE

Inspector of Gas and Gas Meters

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

Inspector of Gas and Gas Meters

NEWARK, N. J., March 2nd, 1914.

To the Honorable, the Mayor and Common Council of the City of Newark:

GENTLEMEN: I hereby respectfully submit my annual report covering the work done by the department for the Inspection of Gas and Gas Meters during the year ending December 31st, 1913.

INSPECTION OF GAS.

The quality of gas supplied in the city of Newark is required to be up to certain standards for adequate service to the consumer and a part of the work of this department is to make regular inspections to determine whether or not these standards are constantly and properly maintained.

Candle Power.

We suspended tests for the candle or illuminating quality of the gas on February 11th, 1913, and substituted calorific readings for the heating value, because the latter quality serves the interests of a very large majority of the gas consumers in this city, while the candle power tests chiefly provide laboratory data, under the uses to which most of the gas furnished is now put, that is of no practical interest

to the average consumer. We have not disposed of our bar photometer, however, and should it be advisable at any time in the future the candle power tests can readily be resumed.

These results were obtained up to and including February 11th:

	High	Low	Average
Candles	20.10	17.10	18.41

1. Heating Value.

A monthly average, total heating value of 600 B. T. U., with a minimum which shall never fall below 550 B. T. U., is required. The following table shows the results obtained from 368 tests during the year:

2. B. T. U.

Month	High	Low	Average
January	623	592	607.76
February	620	594	609.3
March	641	600	617
April	635	611	622.81
May	636.5	604	620.96
June	648	601	614.5
July	623.5	602.5	610.8
August	636	610	622.75
September	626	596	608.47
October	630	590	610.48
November	617	587	602
December	613	586	604.4
For the Year	648	586	612.6

TOTAL SULPHUR AND SULPHURETTED HYDROGEN IMPURITIES.

The amount of total sulphur allowed in the gas is not more than 30 grains per 100 cubic feet, and the gas shall be so far free from Sulphuretted Hydrogen that it will not discolor paper imbued with acetate of lead when these papers are exposed to a current of gas. The papers so tested failed to show any trace of Sulphuretted Hydrogen during the year.

We were not able to make any tests to determine the amount of total sulphur present in the gas supplied in this city during the past years because our laboratory was not equipped with a sulphur test apparatus, but through the courtesy of the New Jersey State Public Utility Commission we have made an arrangement whereby they will allow us to use their Referees' Apparatus and necessary laboratory accessories when the Inspectors for the Board are not using it. This will permit us to make all the sulphur tests that will be required for the present, but as the work of the Commission increases so that we cannot have sufficient use of this apparatus, it will be necessary for the city to purchase a complete sulphur test apparatus and the laboratory equipment required.

PRESSURE AND VARIATION OF PRESSURE.

Gas pressure as measured at meter inlets must never be less than one and one-half (1½) nor more than six (6) inches of water pressure; and the daily variation of pressure at the inlet of any one meter on the system shall never be greater than one hundred per cent. of the minimum pressure.

A daily twenty-four hour chart is obtained at the office of this department, and while the records actually show

only the conditions and pressure of the gas supplied to this building, they may be taken as fairly representative of the pressure that will ordinarily be found at meter inlets throughout the city.

Tables 3 and 4 show, respectively, a summary of the pressure record and the variation of pressure.

3. Inches.

Month	Maximum	Minimum	Average
January	3.10	2.40	2.75
February	3.10	2.50	2.80
March	3.10	2.50	2.80
April	3.10	2.60	2.85
May	3.20	2.00	2.90
June	3.70	2.40	3.05
July	3.40	2.40	2.90
August	3.70	2.50	3.10
September	3.40	2.50	2.95
October	3.60	2.50	3.05
November	3.50	2.50	3.00
December	3.70	2.60	3.15
For the Year	3.70	2.00	2.94

4. Per Cent.

Month	Maximum	Minimum	Average
January	29.17	15.38	24.00
February	24.00	20.00	22.00
March	24.00	11.10	19.23
April	19.23	11.11	13.00
May	55.00	14.81	19.23
June	48.00	20.00	24.50
July	30.77	11.11	19.23
August	37.00	11.10	14.80
September	30.77	14.81	13.81
October	33.33	14.81	22.59
November	30.00	14.80	22.20
December	32.14	14.81	18.52
For the Year	55.00	11.10	19.42

INSPECTION AND SEALING OF METERS.

It is the duty of this department to inspect, examine, prove and ascertain the accuracy of all gas meters, used or intended to be used for measuring and ascertaining the quantity of gas furnished by the gas company to its consumers in the city of Newark, and when found to be or made correct within 2 per cent. either way of the exact number of feet passing through them, to seal each of them.

The following tables show the results of the meter testing work:

5. Meters Tested.

Month	New	Repaired	Consumers' Complaint	Total
January	591	26	9	626
February	147	16	5	168
March	4	1	6	11
April	10	....	1	11
May	220	....	5	225
June	431	13	2	446
July	308	27	..	335
August	616	....	2	618
September	469	4	..	473
October	662	....	2	664
November	171	34	..	205
December	521	....	3	524
Total	4,150	121	35	4,306

6. Meters Found Incorrect.

	New	Repaired	Consumers' Complaint	Total
Number incorrect	56	4	25	85
Per cent. incorrect	1.35	3.36	71.43	1.97
Number fast	51	4	21	76
Average per cent. fast	3.11	4.12	5.60	3.45
Highest per cent. fast	6.40	7.00	12.40	12.40
Number slow	.....	.....	4	4
Average per cent. slow	.....	.....	25.04	25.04
Highest per cent. slow	.....	.....	45.00	45.00
Don't register	5	.....	.....	5

COMPLAINTS.

The number of meters examined on consumers' request during the year shows a decrease of 46 per cent. from the number examined in 1912. Table 6 shows that twenty-one meters registered faster than the standard of 2 per cent., for which the gas company returned to the consumers on whole premises the fast meters were in service, in cash or allowance on bills, a total amount of $67.20.

In addition to the number of meters tested for consumers we investigated nine (9) complaints in which the complainant did not desire or it was unnecessary to make a test on the meter to remedy the complaint. The following tabulated form will show the causes and remedy obtained for these complaints.

No. of Complaints	Causes	Remedy
		(1 and 2) Under reading month previous to complaint, apparent. Complainants accepted this explanation.
5	High Bills.	(3) Former meter removed because of non-register, bills from new meter probably correct. (4) Nothing satisfactory to complainant. (5) New meter bearing our seal in service 1½ months. Request for meter test withdrawn on this account.
1	Carbonization of mantles and poor quality of gas.	Quality of gas up to the standards. Mantle trouble referred to gas company.
1	Prepayment attachment out of order.	$3.75 overpaid. Returned to complainant.
1	Consumer on first floor rendered bills belonging to second.	Accounts corrected, $7.40 overpaid. Returned to complainant.
1	Inattention of gas company to No Gas Complaint. Three-family house without gas for five days.	Street service pipe clogged. Gas company cleared service same day complaint was received at this office.

Through the hearty co-operation of the Aldermen who were members of our committees of the last few years, and a mutual arrangement with the New Jersey State Public Utility Commission, this department is now equipped with

or has the use of the necessary testing apparatus and accessories to enable us to make all the tests required under the State and this Citys' rules and regulations now in force, a full report of which appears in my annual report for the year 1912. These rules and regulations with the standards fixed therein are considered to be ample to afford adequate gas service to the consumer under the conditions now prevailing in the manufacture and distribution of artificial gas and the uses to which it is put.

Yours very respectfully,

ELLSWORTH FRANCISCO,

Inspector of Gas and Gas Meters.

ANNUAL REPORT

OF THE

CLERK OF THE ALMS HOUSE

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

Clerk of the Alms House

To the Honorable the Common Council of the City of Newark:

In compliance with the provisions of the eighth section of the ordinance entitled "An Ordinance to establish and regulate the Alms House Department," I herewith present my yearly report for year ending December 31st, 1913:

REPORT	NUMBER AND DESCRIPTION OF PERSONS IN THE ALMS HOUSE OF THE CITY OF NEWARK.	Persons Remaining at the Beginning of the Year.	Admitted During Year.	Discharged During Year.	Births During Year.	Deaths During Year.	Persons Remaining at the End of the Year.
White	Adults— Males	157	125	105	.....	25	152
	" Females	68	27	20	.....	8	67
	Children—Males	1	9	10	.....	.....	.....
	" Females	.....	10	7	.....	.....	3
Black	Adults— Males	7	10	9	.....	1	7
	" Females	4	4	.....	.....	4	4
	Children—Males	.....	1	1	.....	.....	.....
	" Females	.....	1	1	.....	.....	.....
	Totals	237	187	153	.....	38	233

INCIDENTAL EXPENSES.

DISBURSEMENTS.

January	$ 29.35
February	24.80
March	52.80
April	34.10
May	31.15
June	77.95
July	32.85
August	30.05
September	53.55
October	38.43
November	53.75
December	37.40
Total	$496.18

RECEIVED FROM CITY TREASURER.

January	$ 29.35
February	24.80
March	52.80
April	34.10
May	31.15
June	77.95
July	32.85
August	30.05
September	53.55
October	38.43
November	53.75
December	37.40
Total	$496.18

CAUSES OF DEATH.

Lungs and Air Passages	3
Kidney and Urinary Tract	2
Heart and Circulatory System	11
Brain and Nervous System	11
Senility	5
Cancer	2
Liver	2
Fracture of Cervical Vertebra	1
Digestive Tract	1
Total	38

All of which is respectfully submitted,

PATRICK J. WHITE,
Clerk of the Alms House.

ANNUAL REPORT

OF THE

Newark Technical School

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

FINANCIAL STATEMENT

Newark Technical School

For the Year Ending December 31st, 1913.

RECEIPTS.

Balance January 1st, 1913	$32,576.92
City Appropriation, 1913-1914	20,000.00
State Appropriation, 1913-1914	10,000.00
Tuition fees	2,480.00
Merchandise sold	1,430.66
Interest on deposits	656.67
Chemical apparatus destroyed	56.44
Locker rents	9.50
Total receipts	$67,210.19

DISBURSEMENTS.

Salaries	$17,891.80	
Transferred to Sinking Fund	5,000.00	
General expense account	3,475.64	
Installing electric light (Academic Building)	1,398.00	
Merchandise purchased	1,281.58	
Repairs and alterations	1,254.16	
New equipment	1,245.61	
Lighting	948.69	
Furniture	530.08	
Fitting up Assay Laboratory	515.09	
Power	218.92	
Library	151.45	
Protection for endowment	124.30	
Paid models for services	107.40	
Chemical laboratory	161.96	

Electrical laboratory	77.26	
Plumbing laboratory	86.21	
Mechanical laboratory	76.44	
Physical laboratory	42.21	
Electroplating laboratory	41.61	
Wiring laboratory	23.64	
Assay laboratory	31.10	
Total disbursements	$34,683.15	
Balance December 31st, 1913	32,527.04	
		$67,210.19

SINKING FUND.

Transferred from maintenance account		$5,000.00
Interest on deposit		27.39
		$5,027.39
Paid on mortgage	$5,000.00	
Balance in Sinking Fund	27.39	
		$5,027.39
Mortgage loan		$35,000.00

CHARLES A. COLTON,
Director.

ANNUAL REPORT

OF THE

LICENSE INSPECTOR

CITY OF NEWARK

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

LICENSE INSPECTOR

To the Honorable the Common Council of the City of Newark:

GENTLEMEN:—In compliance with the provisions of the Ordinance providing for a License Inspector, I herewith present my report for the year of 1913.

The following Licenses were granted during the year:

728	Venders' Licenses	$ 10.00	$ 7,280.00
815	Peddlers' Licenses	5.50	4,482.50
789	Cartmen's Licenses	5.00	3,945.00
1	Meat Peddler's License	20.00	20.00
1	Hackman's License, no bdage	10.00	10.00
4	Motor owners, no badge	10.00	40.00
22	Hackmens' Licenses	10.50	231.00
67	Motor owners	10.50	703.50
7	Hack Drivers' Licenses	5.50	38.50
44	Motor Drivers' Licenses	5.50	242.00
38	Auctioneers' Licenses	50.00	1,900.00
126	Junk Dealers' Licenses	15.00	1,890.00
45	Junk Shop Keepers' Licenses	25.00	1,125.00
100	Junk on Foot Licenses	10.50	1,050.00
774	Car Licenses		7,386.07
84	Dance Halls	2.00	168.00
4	Bill Posters	25.00	100.00
54	Bill Distributors	2.00	108.00
3	Lodging Houses	1.00	3.00
12	Pawn Brokers' Licenses	150.00	1,800.00
16	Organ Grinders' Licenses	10.50	168.00
30	Employment Agencies	25.00	750.00
16	Theatricals	350.00	5,600.00
	Shows and Exhibitions		19,817.34
			$58,857.91

JAMES W. WARD,
License Inspector.

ANNUAL REPORT

OF THE

Smoke Inspector

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

SMOKE INSPECTOR

NEWARK, N. J., March 25, 1914.

To the Honorable, the Mayor and Common Council of the City of Newark, N. J.:

GENTLEMEN:—In accordance with and in pursuance of the direction of your honorable body, I herewith submit my annual report for the year ending December 31, 1913.

Recapitulation of the field work for the year under review:

Number of Inspections	433
Number of Observations and Interviews	Uncertain
Number of Complaints	66
Number of Abatements by a change of fuel to anthracite or a mixture of this coal with bituminous	23
Number of Abatements by a better system of firing and the use of semi-bituminous coal	29
Number of Abatements by Smokestack Improvements	1
Number of Abatements by Installation of Devices	9
Number of Cases referred to the Board of Health	2
Number of Cases referred to the Bureau of Combustibles	1

Number of Complaints Investigated, but in our judgment were not violations of the ordinance..... 11
Number of Preventive Devices installed during the year 9
Number of Devices in operation at last report..... 107
Number of Devices in operation at present..... 116
Number of Letters sent out..... 62
Number of Letters received..... 83
Number of Annual Reports sent out..... 47

RECOMMENDATIONS.

That the present ordinance be amended in such manner that the Smoke Inspector will have authority to supervise and order the proper construction of furnaces so as to prevent smoke in all new and reconstruction work. Also that the ordinance be made more elastic, adopting a color scale for chimneys that smoke and a separate ordinance for other chimneys that emit cinders and coal dust in quantities sufficient to cause a deposit on a surface.

In connection with the work of this department, I wish to thank the Finance Committee of the Common Council, the Building Department, Board of Health and the Bureau of Combustibles, who have been willing at all times to assist in the work of smoke abatement whenever possible.

Respectfully submitted,

DANIEL MALONEY,
Smoke Inspector.

ANNUAL REPORT

OF THE

Clerk of Centre Market

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

Clerk of Centre Market

NEWARK, N. J., December 31, 1913.

To the Honorable, the Mayor and Common Council of the City of Newark, N. J.:

GENTLEMEN:—I herewith submit my report for the year ending December 31st, 1913.

MONTH	Fees	Amount	Scales	Amount	Rents	Total
January	1,500	$ 750.00	150	$ 30.00	$3,252.59	$4,032.59
February	1,140	570.00	71	14.20	3,252.59	3.836.79
March	1,400	700.00	242	48.40	3,252.59	4,000.99
April	2,500	1,250.00	5	1.00	3,252.59	4,503.59
May	3,600	1,800.00	104	20.80	3,252.59	5,073.39
June	3,500	1,750.00	98	19.60	3,252.59	5,022.19
July	3,600	1,800.00	109	21.80	3,252.59	5,074.39
August	5,700	2,850.00	100	20.00	3,252.59	6,122.59
September	6,150	3,075.00	104	20.80	3,252.59	6,348.39
October	5,400	2,700.00	180	36.00	3,252.59	5,988.59
November	2,850	1,425.00	147	29.40	3.252.59	4,706.99
December	3,400	1,700.00	206	41.20	3,252.59	4,993.79
Totals	40,740	$20,370.00	1,516	$303.20	$39,031.08	$59,704.28

RECEIPTS FOR 1913.

Country Market Grounds (Fees 40,740)	$20,370.00
Monthly Rents	39,031.08
City Standard Scales (Scales 1,516)	303.20
	$59,704.28
Centre Market, O. B., for water furnished from	
Received from N. Lindeman, 27½x29, Centre Market, O. B., for water furnished from Market Supply	54.59
Received from Knickerbocker Paint Co. of New York, discount 3% allowed on bill paid for paint to amount $15.95	.48
Also allowance for freightage on same	.54
	$59,759.89

THOMAS J. ROWE,
Clerk of Centre Market.

ANNUAL REPORT

OF THE

Board of Playground Commissioners

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

BOARD OF PLAYGROUND COMMISSIONERS

For the Year 1913.

	Appointed	Term Expires
Algernon T. Sweeney	Jan. 1st, 1913	Dec. 31st, 1913
Nicholas La Vecchia	Jan. 1st, 1913	Dec. 31st, 1914
*Bernard M. Shanley, Jr	Jan. 1st, 1913	Dec. 31st, 1915
Milton Lowy	Jan. 1st, 1913	Dec. 31st, 1916
Charles A. MacCall	Jan. 1st, 1913	Dec. 31st, 1917
†Bernard J. Owens	Aug. 1st, 1913	Dec. 31st, 1915

* Resigned.

† Appointed to fill vacancy.

OFFICERS OF THE BOARD OF PLAYGROUND COMMISSIONERS

FOR THE YEAR 1913

PRESIDENT

ALGERNON T. SWEENEY

SECRETARY

J. LEONARD MASON

COMMITTEES

FINANCE

*Bernard M. Shanley
Milton Lowy
Charles A. MacCall

SUPERVISION.

Charles A. MacCall
Nicholas La Vecchia
*Bernard M. Shanley

BUILDINGS AND GROUNDS

Milton Lowy
Nicholas La Vecchia
*Bernard M. Shanley

SUPPLIES

Nicholas La Vecchia
Charles A. MacCall
Milton Lowy

*Resigned. Bernard J. Owens appointed to fill vacancy.

ANNUAL REPORT

OF THE

Board of Playground Commissioners

FOR THE YEAR 1913

To the Honorable the Common Council of the City of Newark, N. J.:

GENTLEMEN:—The Board of Playground Commissioners submits herewith its annual report of the Newark City Playgrounds and Baths for the year ending December 31, 1913.

The following tables show the annual receipts and expenditures during the year 1913:

PLAYGROUNDS.

RECEIPTS.

Appropriation	$34,000.00
Transferred from Contingent Fund	252.78
Miscellaneous receipts	391.35
	$34,644.13

EXPENDITURES.

Salaries:		
Secretary	$ 3,093.37	
Inspector	1,322.50	
Instructor	1,229.35	
Stenographer	650.00	

Directors	5,373.77	
Play-leaders	4,927.22	
Play-helpers	1,570.85	
Repairman	580.50	
Laborers	3,166.50	
Watchman	97.00	
Bills:		
Heat	185.10	
Light	460.12	
Insurance	190.50	
Telephone	259.75	
Miscellaneous expenses	1,753.66	
Rent	285.00	
Taxes	876.68	
Water	216.57	
Repairs to buildings and grounds	3,359.69	
Repairs to equipment	91.20	
Play Material	1,045.58	
General material, supplies and miscellaneous equipment	2,429.45	
Permanent equipment	628.05	
Automobile and stable expense	502.44	
Stationery and office supplies	349.28	
		$34,644.13

PUBLIC BATHS.

RECEIPTS.

Appropriation	$11,000.00
Transferred from other accounts	3,104.41
Miscellaneous receipts	2,689.55
	$16,793.96

EXPENDITURES.

Salaries:		
Inspector	$ 626.17	
Pension	100.00	
Superintendents	2,409.08	

Assistant Superintendents	1,000.00	
Matrons	678.50	
Attendants	1,438.00	
Firemen	1,262.50	
Engineers	1,437.50	
Helpers	102.00	
Laborers	1,596.50	
Bills:		
Heat	1,705.80	
Light	212.92	
Insurance	55.20	
Telephone	12.90	
Miscellaneous expense	55.32	
Repairs to buildings and grounds	1,259.91	
Repairs to equipment	5.51	
General material, supplies and miscellaneous equipment	680.05	
Soap	357.80	
Laundry	739.03	
Sheets and towels (original cost)	511.47	
Permanent equipment	403.45	
Morris Avenue House	108.35	
		$16,793.96

Owing to the practical discontinuance of its activities during the latter yart of last year, this Board found it necessary to reconstruct the entire department of playgrounds. This reorganization has gone on steadily and with some degree of success.

The death of our esteemed secretary, Mr. Philip Gifford, which occurred early in January, was a loss which was keenly felt by all of those active in the work.

After an extended search for the best man available to fill this position the Commission was extremely fortunate in being able to secure the services of Mr. J. Leonard Mason. Mr. Mason brought to this city a wealth of knowledge

and experience in the work of organizing and conducting municipal playgrounds and baths. To his ability and untiring zeal is greatly due the success which has attended the effort to place Newark's system of playgrounds and baths upon the plane it deserves.

There follows a report of the activities of the department in detail.

PLAYGROUNDS—ORGANIZATION OF THE DEPARTMENT.

Administration.

Offices were opened in the City Hall March, 1913. The form of organization of the entire department was revised. Plans were submitted to the Civil Service Commission and approved. Titles of positions were changed as follows: Playground Custodians to Playground Directors, Caretakers to Playleaders, Laborers to Caretakers of Grounds and Buildings; Play-helpers and Special Instructors remain the same; Playground Inspector added. Regulation uniforms have been adopted, and are worn by employees while on duty. Written directions governing the duties of each position have been given out. The Civil Service Commission was requested to hold examinations for positions for which there were no eligible lists. The standard of requirements for all positions has been raised.

Duties of Officers and Employees.

Inspector—It is the duty of the inspector to oversee all the playgrounds, particularly in regard to appearance, re-

SUMMER AVENUE BATH AND PLAYGROUND

pairing apparatus and equipment; constructing and installing new equipment. He also has authority in matters of order and discipline.

Repairman—The repairman assists the inspector in repair and construction work.

Instructors—The instructors visit all grounds in the performance of their duties. One instructor conducts organized club work, dramatics and dancing classes; another instructor looks after playground and inter-playground leagues in baseball, basketball, football, etc., and gives instruction in these and other games. He also arranges for the officials connected with these leagues, and attends to all publicity work. Special instructors in music and other activities will be needed in the future.

Directors—A director is in charge of each Recreation Center and is held responsible for its care, order and general success. The director is assisted by male and female play-leaders, helpers and a caretaker. Playground directors receive $75 per month, play-leaders $50 per month and caretakers $2 per day. The helpers are practically the same as play-leaders, but are in the non-competitive class, receiving $1.85 per day.

Watchmen—It has been found necessary to employ watchmen at some of the grounds. A playground invariably becomes a public nuisance when left unguarded at times when the ground is not open and there is no supervision.

Laborers—It is necessary to employ a small force of laborers when new grounds are put in operation.

Three grounds, Canal, Prince and Oliver Street, have been kept open evenings until 9:30 o'clock. The minimum force required to properly conduct day and night centres is five persons, namely: Director, male play-leader, two female play-leaders and one caretaker. Excepting the caretaker, these work in a double shift.

Weekly conferences.

Weekly meetings or conferences are held for the directors, play-leaders and helpers; the object being the discussion of ways and means of improving the method of supervision. After theory, comes practice in play and games. These meetings are proving helpful in bringing together the entire staff, resulting in unity of purpose, consistent effort and a larger knowledge of the purpose of public recreation and organization of these centres.

Improvement of grounds.

A survey of the grounds was made and work of repair and construction begun. The following brief statement shows what has been accomplished: Resurfacing, painting fences and buildings, repairing apparatus, installing new apparatus, repairing faulty plumbing, installing drinking fountains and telephones where there were none, adding more out-door lights, relettering all signs, and doing other repairs and construction work. Small portable recreation houses were put up on Lafayette Street and Belleville Avenue Playgrounds; two of the old recreation houses which were formerly small dwellings, were found to be in such poor condition that it was deemed advisable to tear them down, in the hope that better structures would soon replace them.

Regulations governing grounds.

In order to be of real benefit to the community, a playground must be well governed and conducted in an orderly manner. To this end, printed rules and regulations governing the use of playgrounds are posted at all centres. Daily schedules of activities were suggested as a guide for the Directors. Leaders Corps were organized from qualified boys and girls on each ground to assist in interesting

and safeguarding other children. Sanitary Squads were organized in the same manner to assist in keeping grounds and buildings clean and attractive. Examination for both of these corps were held by the playground directors. The boys and girls chosen were given distinctive badges to wear while on duty.

NEW PLAYGROUNDS OPENED.

Belleville Avenue Playground.

The Commission leased the old car barn site located at Belleville and Arlington Avenues and has gone as far as seems wise to equip and maintain this playground so long as it remains rented property. At the present time it has a first-class equipment, consisting of gymnatic apparatus, wings, slides, etc., and a portable steel recreation house 20′ x 40′ for indoor games and meetings. This property should be purchased and made an ideal playground by proper fencing, tree and shrub planting, surfacing and building suitable permanent recreation houses, shelters and wading pool.

Summer Avenue Playground.

The opening of this ground clearly shows the splendid results of co-operation between city departments and the centralization of the administration of playgrounds and baths. Upon request, the Board of Works granted the use of the property connected with the Summer Avenue Bath to the Playground Commission for playground purposes. This property had previously been used as a storage for pipe and stone. The space was cleared and equipped with

play apparatus and now the bath and playground are being conducted as a single centre for wholesome uplifting activity. One of the dressing rooms in the bath house is used as a meeting room for the boys' and girls' clubs. This centre is exceedingly attractive, considering the small space and amount of money expended on it.

The past year has been a busy one on all grounds. Special care has been given to interesting all ages and classes. The play-leaders and helpers have been assigned to certain groups, devoting their entire attention to each group. The directors supervise the whole program of activity, as well as instruct separate groups when it is possible to do so. All safe and interesting forms of games and sports adapted to playground use have been carried on. All activities are systematically arranged and grouped into active and quiet occupation, and adapted to groups of children, considering their age, physical and moral development.

Free Play.

Free play is an important part of playground activity; swings, see-saws, giant strides, chutes, rings, and other gymnastic apparatus afford not only pleasure to the children, but healthful exercise as well. Splendid use is being made of the new equipment.

Games.

For the smaller children there are ring games, individual games, group games, sand play, story-telling and dramatics. There are certain games which are always popular among the older groups, such as playground baseball, basketball, pin ball, volley ball, pitching quoits, etc. Leagues are formed on every playground, composed of teams in these various sports; these teams play for the championship of their playground; at the close of the series an inter-playground league is formed, which decides the championship

of the playgrounds. Playground football has been played successfully this season; instead of tackling a runner, tagging is substituted. An arrangement of games has been made giving singing games, dancing, active and quiet games for children from four to fifteen years of age, and telling where a description of each may be found. A copy has been placed in the hands of every director and play-leader. A number of indoor games have been supplied for use in the reacreation houses, *e. g.,* small pool tables, miniature shuffleboards, carroms, baseball game, authors, flinch, around the world, etc.

Athletics.

Spring and fall athletic meets were held, which created much enthusiasm and interest. Running, jumping, relay races, potato races, sack races, throwing the basketball and baseball for distance, and many other athletic contests arranged to suit the age and ability of the children, made up the program of events. One of the most interesting events of the year was a relay race in which all grounds took part, starting at Belleville Avenue Playground, changing relays at every playground, making a circuit of the entire number and finishing at Military Park. There is much to be done to break down the false idea among young athletes, namely, that of winning for the sake of the prize alone. The spirit of commercialism is to be deplored and all leaders in athletic competition should work for a higher standard. "To set the cause above renown, to love the game beyond the prize."

Gymnastics.

Instruction in systematic gymnastic exercises has been begun. Because of the great value of this work for physical development, and for training in attention and co-ordination, more emphasis will be given to gymnastics in the

future. One of our chief aims is to inculcate an appreciation of discipline and obedience on the part of the growing child. The directors are training the children in immediate response, to line up at the call of a whistle and to go through marching formations at the command of the leader. This training is excellent. The drills in physical exercise are given for the purpose of developing proper posture, muscular strength and general control, which is usually lacking in the growing youth. When properly supervised, gymnastic apparatus on the playground provides a most valuable means of physical training. Boxing and wrestling classes have been conducted. Standards of physical proficiency are being established and examinations arranged to test a boy or girl in general co-ordination, strength and agility.

Walks, or Hikes.

Walking is healthful, interesting and educational under certain conditions. Parties of children are organized and visit places of interest in and about the city in company with an instructor.

Summer Trips to Seashore.

Groups of children have taken trips to the seashore from time to time, accompanied by instructors. Through the kind co-operation of the manager of a local steamship company, it was possible to arrange an outing to Rockaway Beach in August. Over 1,200 children went on this excursion. Two similar outings are planned for next season.

Holiday Observances.

All playgrounds were represented in the Memorial Day procession. Incidents of the Civil War were represented by floats, and the children who marched carried flags. On the Fourth of July many boys and girls took part in the

athletic games held by the city under the auspices of the Municipal Athletic Association. On Hallowe'en special programs were carried out on all grounds; awards were given for the best costumes and to those who were successful in the various Hallowe'en contests. On Christmas appropriate exercises were arranged. Through the generous contribution of a number of citizens trees were provided, and toys and useful articles distributed at all grounds. On New Year's Eve the playground children gave an excellent program of folk dancing and drills around the Municipal Christmas Tree in Military Park. It is planned to hold appropriate exercises at all recreation centres on holidays.

Exhibitions and Demonstrations.

At nearly every centre an exhibition has been given this fall consisting of games, races, dancing, gymnastics and costume parades; entertainments consisting of singing, dancing and dramatics have been given in the recreation houses. Much credit is due those who have charge of the arrangement of these affairs, which give evidence of the daily activities on the playgrounds.

Band Concerts.

Two band concerts were held on Prince Street Playground and two on Canal Street Playground during the summer months. These concerts were given under the auspices of the Music Committee of the Common Council; they were highly appreciated by large audiences.

Moving Pictures.

Interesting and instructive moving pictures have been given on several playgrounds. These were furnished by the Anti-Tuberculosis Association, and in an attractive way taught lessons in the importance of hygienic living. Several

managers of moving picture houses have generously allowed parties of children from the playgrounds, accompanied by their teachers, to attend their performances weekly, free of charge.

Dental Clinic.

A free Dental Clinic is maintained at the Newton Street Recreation House. This work is conducted by the Newark Dental Association.

Municipal Dances.

Two very successful free community dances were held in the auditorium of the Hamburg Place School and one in the Elliot Street School last season. These are made possible through the co-operation of the Board of Education, who allow the Playground Board the use of the school building for a small fee. The experiment is about to be made of charging a fee of ten cents to cover the expenses of lighting, janitor service, music and refreshments. This will make these dances self-supporting. At this time, when extremes in dancing are so common, it is important that these dances set the standard for properly conducted affairs of this character. When properly conducted these dances may result in great good, by providing a means for young men and women to enjoy each other's society under the best possible conditions.

Outdoor Winter Sports.

Too much indoor recreation must be guarded against during the winter months. Growing boys and girls especially need to be encouraged to be out of doors when not in school. It is unfortunate, however, that all children are not provided with warm clothing. Newark has many splendid hills where coasting has been enjoyed for many generations. We should continue to permit coasting on certain streets, while safeguarding the sport.

NEW TYPE OF PORTABLE STEEL RECREATION HOUSE

Skating—The skating facilities in this vicinity are quite numerous. However, it may be wise to make ice surfaces on some of our playgrounds for the small children who would not otherwise have a chance to skate. The spraying method has proven most satisfactory for making skating surfaces.

Library Books.

Through the courtesy of the Public Library officials books have been distributed to the playgrounds, which have been used and appreciated.

General Scope of Activities.

The possibilities of providing and conducting interesting and healthful activity in connection with a recreation system are almost limitless. Certain well arranged programs should be carefully carried out. Care should be used not to overlap or duplicate the work of the Board of Education, as over-enthusiasm is liable to lead to that kind of educational work with which the school department has to do primarily. This department should provide education through recreational channels.

MUNICIPAL ATHLETIC ASSOCIATION.

Through the interest of the Board of Playground Commissioners the Municipal Athletic Association was organized April 7th, 1913. Its purpose is to encourage all forms of healthful competition in the City of Newark by conducting annual meets, open to all amateur athletes. All those interested in the object of the Association are eligible to membership. The dues are one dollar ($1) per year for seniors,

ten cents (10c.) for juniors. The first Athletic Meet was conducted Fourth of July for the City of Newark in connection with the celebration. An indoor winter meet is being planned, as are swimming contests and cross-country runs. This organization should take an important part in encouraging sports of the highest standards. It provides a means of bringing together representatives of clubs and associations in the city interested in athletics, gymnastics, and games, all working together in the interest of the youth of the city.

RECREATION HOUSES.

Every playground should have a recreation house on it. Types of houses vary greatly, from the single portable structure to the splendid recreation building of the first class, containing a gymnasium, gallery, dressing rooms, swimming pool, game room, offices and other features described under the title of "Municipal Recreation Buildings" in this report. The old houses such as are now being used on the Newton Street and Prince Street Playgrounds do not make good substitutes for buildings constructed for this purpose.

Portable, or Small Types.

It is often advisable on rented grounds or where funds do not permit a permanent structure to be built, to use the next best available house. The first portable house was erected on Lafayette Street Playground, but being of wooden construction and not fire-proof, further use of this type has been discontinued. The steel portable type has been tried on Belleville Avenue Playground and is proving satisfactory. This is size 20′x40′. Similar buildings are about to be erected on Canal and Oliver Street Playgrounds. The plans provide for a partition which divides the house

into two parts so that the girls and boys may use it at the same time. This partition may be removed, giving one large room for entertainments. A portable steel comfort station has been placed on Lafayette Street Playground, size 12'x12'. This house is divided into four sections, 6'x6' each, which provided for boys' and girls' toilets, shower baths and dressing rooms. Comfort stations must be provided for all grounds where there are none now.

Municipal Recreation Buildings.

It is strongly recommended that the city build a recreation building of the first class. A building of the type here described would have an uplifting influence throughout the whole city. Just as the Public Library is a great agency for the advancement of culture and education, so the Municipal Recreation Building would stand for clean, strong, healthy citizenship. In this building there should be a gymnasium, swimming pool, hand ball court, game room, reading room, and several meeting rooms, and if possible an auditorium. This building should be centrally located and accessible from all parts of the city; certain days would be for women and girls, other days for men and boys. Well qualified instructors should be put in charge. With such facilities for physical exercise, relaxation and wholesome recreation, the lives of thousands of residents of Newark would be brightened and new ambition and enthusiasm aroused. Standards of ideal citizenship would be set, and there would be a keener appreciation of the great value of a sound mind in a healthy body. Unselfish motives and charity toward all would be exemplified in such a municipal movement. This is not mere theory; excellent results are being proved in many cities throughout our own country. Physical, social and moral benefits are matters of certainty. The citizens of Newark are being deprived of a great opportunity so long as Municipal Recreation Buildings are not built.

PLAYGROUND RECOMMENDATIONS.

Adoption of General Recognized Policy of Improving Present Grounds and Adding Two or More Grounds Each Year.

In order to progress to the best advantage in building up our playground system, a definite plan of action must be formulated which would be in proportion to the funds available and the department's administrative machinery. First, much remains to be done in improving the present grounds, which will require the expenditure of a large sum of money. In this particular it must be determined how far it is wise to proceed in the improvement of our rented property. There should be no hesitation, however, on this account; these grounds should be put in first-class condition. In the event that the rented property proves valuable for play purposes, steps should be taken to purchase it. When funds do not permit the purchase of new grounds, the use of same may sometimes be acquired through payment of taxes, with the option of purchasing when in a position to do so. The advantage of first renting is that the site may be thoroughly tested before purchasing. The disadvantage of renting is that money is expended for rent and taxes which might otherwise be used for improving the playgrounds owned by the city. Second, purchase should be made of at least two grounds each year, and thus gradually increase the number of city owned playgrounds. This is the most conservative policy which can be followed in order to keep pace with the city's growth and needs. The policy of adding two playgrounds each year and acquiring two by purchase whether these be new or already rented, is strongly recommended.

When estimating the cost of a playground, these items should be considered:

INITIAL COST.

1. Cost of ground.
2. Grading and surfacing.
3. Fencing.
4. Equipment.
   (a) Play apparatus.
   (b) Tools.
5. Recreation house.
6. Comfort station.
7. Lights installed.
8. Water connection.

COST OF MAINTENANCE.

1. Rent or taxes.
2. Salaries of director, play-leaders and caretaker.
3. Play material.
4. Repairs.
5. Incidentals.
6. Lighting.
7. Heating.
8. Water tax.

Where New Grounds May Advantageously be Situated.

There are so many districts where playgrounds should be created that it is difficult at this time to select only a few spaces for development; it must be understood that there are many other sections which must eventually receive consideration besides those mentioned. A more careful study of available property will be necessary before selecting definite sites for playgrounds.

Fourteenth Ward—This is one of the most thickly populated sections of the city, the streets are full of children, accidents are frequent, and altogether there is no place in greater need of a playground.

Factory Street—A recreation centre should be created in this district, which is very thickly populated. This should be done in co-operation with the Board of Education. A playground and recreation building, including gymnasium and swimming pool, would do a great deal for this community.

Vailsburg Section—This part of the city is growing rapidly and now is the time to provide a playground while space is yet available.

Morton Street School—It would be a splendid thing for those living in the vicinity of Morton Street School if, through the co-operation of the Board of Education, this playground could be enlarged and made an all the year round centre. A recreation building erected beside the school would prove valuable, not only for the pupils of the school, but for the entire community.

South Side—This section of the city is growing rapidly, the land should be secured here for playground purposes before it is entirely built up. This is true of both the south-east and southwest sections.

Fifth Ward—There is great congestion in this section, and a playground is much needed here.

Summer and Verona Avenue and Coeyman Street—This section is growing rapidly and should receive consideration.

Clayton Street—This is a thickly populated colored district where a playground is needed.

Seventh Ward—Consideration should be given this section; sites have been suggested in this vicinity.

Bergen Street to South Tenth and South Orange to Clinton Avenue—This whole section is in great need of playground facilities.

Bloomfield Avenue and Third Street—It has been brought to the attention of the Commission that a playground is needed in this section, and the property bordering on the Canal has been suggested for play purposes, and also part of the old Morris Park.

Morris Avenue and South Orange Avenue—If Newton Street ground can be disposed of to advantage, the property nearby at Morris Avenue and South Orange Avenue would be a good place for a play field. This property is available.

Newton Street Playground—This ground is not well located for a playground, being next to the German Hospital. In the rear is an embankment of some thirty feet, which is lost ground for play purposes and needs constant repair. Although the Newton Street ground is obviously unsuited for a recreation centre, it should not be abolished until another ground in the vicinity is acquired to take its place. The old house is used for a meeting place for playground organizations, but is chiefly valuable as a storehouse and supply centre for the department.

Playground Camp.

This department should conduct a playground camp during the summer months. This camp should be located not far from the city, where playground children could easily reach it. Whether the location be at the seashore or in the country is worthy of further consideration, but in any event, such a camp, properly located and conducted would be of great benefit.

Department Publication.

A semi-monthly bulletin, giving information about the department should be published. Subscriptions to this paper would in part pay for the printing, but the good results from such a paper would warrant a small expenditure to make up any balance needed. This should be done in co-operation with the Industrial School.

Employed Staff.

Great difficulty has been experienced in securing desirable candidates for examination. Young men who would make desirable leaders either go into other professions or into business. The members of the present staff are being helped and encouraged, but a higher standard of eligibility

must be exacted in the future. If the best results are to be obtained the standard for playground positions should gradually approach and finally reach that of the public schools. Playground directors should correspond to school principals, play leaders to teachers, caretakers to janitors. A playground can be no better than its director and leaders. The kind of influence exerted depends upon the character of those in charge. Inefficiency cannot be afforded at any price. Many people look upon a playground position as requiring no special training or ability. This is an entirely false conception. Every playground should be supervised by men and women who are either specially trained for this work, or who have natural ability or both. This fact is obvious when it is considered that the playground directors should be both teachers and leaders of the boys and girls. The present staff is profiting by actual experience and making advancement in the grade of work at all centres.

More Instructors Needed.

Special instructors should be engaged from time to time for the purpose of instructing musical organizations connected with the playgrounds, such as orchestras, bands, drum and fife corps, banjo and mandolin clubs and chorus singing. Instructors in story-telling, dramatics and pageantry would also be valuable additions to the staff.

Vacant Lot Cultivation.

Among the department's activities of the future vacant lot cultivation should receive attention. This work is being carried on very successfully in Philadelphia and other cities, where temporarily idle lots are made useful and attractive and those who do the work thoroughly enjoy the experience.

Possibilities of New Market Roof for Recreation Centre.

The plans for the new market will doubtless show a large roof area, which will hold great possibilities for a public

INTERIOR PUBLIC BATH NO. 4

NEW PUBLIC BATH NO. 4—MONTGOMERY AND CHARLTON STREETS

recreation centre. This building should be built with this in mind. The space could be divided for use by all ages with seats and shelters, sand boxes, swings, slides and teeters for children; gymnastic apparatus, screened courts for basketball, volley ball, hand ball, etc., for the older ones. The construction should be strong enough so that audiences might safely gather for concerts and entertainments. The whole could be made attractive with shrubs and flowers. This could be made one of the largest and most appreciated recreation centres in the city, and it is to be hoped that the construction will provide for the roof being used for this purpose.

PUBLIC BATHS.

ORGANIZATION.

Change of Management.

Under an Act of the State Legislature, passed during the session of 1913, the public baths formerly conducted by the Board of Street and Water Commissioners were placed under the control of the Playground Department last spring.

Putting Baths in Order.

The three public baths which have been used for some years, but which have heretofore been closed during the winter months, were reopened May 15th, 1913. Not being of modern construction, these baths required many repairs to get them ready for use. They are of the pool type, but the pools have not been used for several years, owing to the fact that they were not hygienically constructed. Individual bathing booths made of white muslin curtains over

wooden frames were placed around the open showers, giving a desired privacy. The interiors of the buildings were repainted, plumbing and heating overhauled, and the whole made as attractive as possible. Bath employees while on duty wear a regulation uniform. Two days each week are reserved for women and girls.

Change of Rates.

A towel and soap is furnished for three cents instead of five cents as formerly. Bathers furnishing their own towel may bathe free of charge. Children free.

New Bath.

The new bath at Montgomery and Charlton Streets, in the Third Ward, has had a remarkable success since opening, September 4th, 1913. The attendance averaged over one thousand bathers daily the first few weeks. This bath has ninety-five (95) showers, two (2) tubs and two (2) small tubs for infants. Separate rooms provide for women and men at the same time.

Regulations Governing Baths.

Regulations governing the use of these baths have been posted, and altogether the administration of the four (4) bathing centres now in use has been systematized in every way possible.

TYPES OF BATH HOUSES.

Shower Baths.

The city baths include the three (3) old buildings and one new building, the latter being used entirely for shower baths. The shower bath is essential for cleansing purposes; there is also a refreshing physical reaction when a shower is

properly taken. Every bath house should be generously equipped with the best type of showers, and the best known regulating devices provided. The equipment in the old baths is not satisfactory, and must be replaced by a more modern system if these houses are to be continued. The modern method of having a shower and dressing room in a single compartment, partially divided in two sections, is followed in the new bath, but in the old buildings the dressing rooms are separate, being located in the galleries. The latter arrangement has the advantage of keeping the clothing removed from the water and steam of the bath, but is more difficult to supervise than the former arrangement.

Shower Baths and Gymnasium.

The exercising room naturally goes with the bath. When building a bath house it is wise to provide for a gymnasium. This matter is discussed fully elsewhere in the report under the heading "Recreation Buildings." When considering the future usefulness of the old bath houses, the possibility of using the spaces formerly used for the pool as small gymnasiums must be considered. These spaces could be boarded over and equipped with gymnastic apparatus. With a competent instructor in charge these places would doubtless attract many patrons. This plan would in no wise interfere with the patronage of the baths, but rather add to it.

Swimming Pools.

The relative merit of the swimming pool and shower bath type of public baths is under considerable discussion at the present time. Certain it is that a poorly constructed and poorly conducted swimming pool is undesirable in any community. On the other hand, experience has shown that it is possible to maintain a properly conducted public swimming pool with nothing but the best results. The sanitary

swimming pool links together the idea of public health with that of public recreation. It also greatly increases the attendance at the public baths throughout the year. The delights of swimming when one has acquired a thorough knowledge of the art are well known. It is a mistake to say that swimming pools are institutions for the well-to-do classes only. The less favored citizen is even more appreciative of a chance for wholesome recreation. Swimming is one of the most healthful forms of exercise, a practical means of self-preservation and life saving. The knowledge of swimming should form an important part of every boy's and girl's education. In order to show how much swimming instruction is needed a record of the swimmers and non-swimmers of the city school children over ten years of age is being made. Returns from five schools give the following results:

School A reports that there are 95 swimmers and 1,491 non-swimmers.

School B reports that there are 118 swimmers and 703 non-swimmers.

School C reports that there are 39 swimmers and 504 non-swimmers.

School D reports that there are 102 swimmers and 402 non-swimmers.

School E reports that there are 114 swimmers and 495 non-swimmers.

Total, 468 swimmers and 3,613 non-swimmers.

The results show that the percentage of swimmers among the girls is very much lower than among the boys.

Modern methods of sanitary construction and strict regulations governing the use of swimming pools make them

reasonably safe from infection. Overflow gutters take away the surface water, refiltration gives a constant flow, taking away used water and bringing in fresh; the hypochlorite of lime treatment destroys bacteria. Bathers are required to take a thorough cleansing bath before entering the pool. Those who do not measure up to the standard of personal cleanliness are not admitted. Efficient attendants see that the rules and regulations governing the use of the swimming pool are strictly observed. The charge of a small fee is found to be desirable in many places. This is not a hardship and helps greatly to reduce the cost of maintenance.

The ideal type of recreation centre includes the gymnasium, swimming pool and a plentiful supply of showers.

BATH RECOMMENDATIONS.

Treatment of Old Baths.

The old swimming pools are not large enough to furnish proper swimming facilities; sixty feet may be considered the minimum length. This length gives an even twenty yards of five lengths for a hundred-yard swim, a distance that is often used for competitive swimming. In a pool of this size the water may be kept pure when used by a number of bathers. One of the old baths might be reconstructed as an experiment, but this should only be done if there is no immediate chance of having a modern recreation building built in the neighborhood. Morris Avenue Bath might be used for this purpose, as the building is in very fair condition. If the plan of creating a new recreation centre at Factory Street goes into effect, no great amount should be spent in refitting the Summer Avenue Bath, but if there is no chance of having a larger or better building, the bath will have to be refitted. The attendance at Walnut Street Bath seems to warrant its being improved and kept in service. It seems wise to adopt the policy of building new and suit-

able recreation centres, and at the same time making the old buildings as useful as possible for present use, without too great an expenditure. At best, the old baths are makeshifts and should eventually be *replaced* by buildings worthy of Newark.

New Baths.

It would be easy for this Commission to recommend the simplest type of bath for Newark, but this it cannot conscientiously do. Buildings should be constructed which will care for the future; such policy means economy in the end; therefore, baths should form a part of the first-class recreation building herein described. Plans for the new recreation building in the Ironbound District should proceed without delay. A conservative policy which should be adopted is to build one first-class recreation building every year until the needs of the city are properly met.

CONCLUSION—GENERAL SURVEY.

Relation of the Park, School and Playground Departments.

In this city there are three departments concerned with the administration of Public Playgrounds, the School Department, Park Department and Playground Department. The Park and School Playgrounds are supervised only during the summer months. At the present time there seems to be no duplication of work among these separate departments. All three are promoting the welfare of the entire recreation system.

Changing Name of Playground Department to Department of Recreation.

The name Playground Commission is a misnomer and the interpretation too narrow. The example of other cities should be followed and this department placed on a basis of a Department of Recreation. This plan of organization

has been found to be the best to cover the entire field of public recreation and training of this character. A bill should be carefully drawn covering these various points and be submitted to the State Legislature in the near future.

Future Development of This Department.

There is only one stand to take relative to playgrounds and recreation centres; these have come to stay. Throughout the country millions are being spent to develop them. Newark cannot afford to close its eyes to such a great movement. The present age is one of humanitarianism. Public recreation, as now generally understood, covers a wide range, including physical, moral and social training. This work supplements that of the public school system; it is educational above everything else. There is but one course to follow, that of having the very best system possible. Such a system cannot be developed at once, but the tremendous impetus of public opinion should drive the work here far ahead during the next few years, and especially during the coming year. Playground and recreation centres should be created throughout the city until no child is out of touch with their influence. These places must be so attractive that street loafing will become casual. Every boy and girl will become interested in some organized activity. Their time will be spent between the home, the school and the playground, where the opportunities for physical injury, bad moral and social influences will be reduced to a minimum, and positive influences toward good character and good citizenship will exist.

Need of More Financial Support.

The time has arrived when more financial support is absolutely essential in order to make progress proportionate to the needs of the city. The system of playground and

bath administration has been arranged so as to give the city the best kind of recreation centres possible. Beyond this little can be said; pleading for support is unworthy of the cause and should be unnecessary; these things speak for themselves. The coming generation cannot be neglected without serious danger to the future of the city. It is as important that the child be well employed in the so-called leisure hours as during school and working hours. Every dollar invested in playgrounds and recreation centres brings double returns to the city in better trained boys and girls for future citizenship.

Thanks are due to His Honor the Mayor, the Common Council, the Board of Works, and other city officials for their hearty co-operation. Appreciation is due the public press, men's and women's clubs and associations, and many interested citizens for splendid support rendered.

The following table shows the attendance at the various playgrounds from April 1st to December 31st, 1913:

	LAFAYETTE ST.		CANAL ST.		OLIVER ST.	
	Girls	Boys	Girls	Boys	Girls	Boys
April	3032	7403	1539	2253	2766	6730
May	2167	8565	1782	2757	1971	7787
June	3138	11056	2719	4600	2853	10051
July	2226	5993	3167	5597	2024	5449
August	4736	10697	3501	7556	4306	9725
September	7466	9189	2402	4240	6788	8354
October	5575	6778	1452	2843	5069	6162
November	7852	9665	1649	3560	7139	8878
December	4776	6417	1559	2533	4342	5834
Total	40968	75763	19770	35939	37258	68970

	NEWTON ST.		PRINCE ST.		BELLEVILLE AVE.	
	Girls	Boys	Girls	Boys	Girls	Boys
April	3445	2285	4105	13820		
May	3235	2127	4790	15510		
June	2700	1365	13370	32425		
July	3700	2255	10750	31600		
August	3955	4390	13200	29940	3181	5490
September	2994	3268	7600	20400	4647	5601
October	2649	2418	3280	10330	2817	2885
November	3678	3450	11985	19470	6749	7779
December	2980	2988	5765	15210	5330	7681
Total	29336	24546	74845	188705	22724	29436

	SUMMER AVE.	
	Girls	Boys
October	3140	3755
November	5427	5722
December	4338	5095
Total	12905	14572

Respectfully submitted,

NICHOLAS LAVECCHIA,
MILTON LOWY,
CHARLES A. MACCALL,
BERNARD J. OWENS,
ALGERNON T. SWEENEY,
J. LEONARD MASON, *Secretary,*
Board of Playground Commissioners.

ANNUAL REPORT

OF THE

BOARD OF EXCISE COMMISSIONERS

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

Board of Excise Commissioners

NEWARK, N. J., January 1, 1914.

To the Honorable The Mayor and Common Council of the City of Newark, N. J.:

GENTLEMEN:—The Board of Excise Commissioners most respectfully submit the following receipts and expenditures on account of Liquor Licenses and Transfers issued the year 1913:

LICENSES AND TRANSFERS GRANTED FROM JANUARY 1, 1913, TO MAY 9, 1913.

298	Retail Licenses	$400	$119,200.00
12	Wholesale Licenses	500	6,000.00
19	Beer Bottlers' Licenses	150	2,850.00

LICENSES AND TRANSFERS GRANTED FROM MAY 10, 1913, TO DECEMBER 31, 1913.

1088	Retail Licenses	$450	$489,600.00
34	Wholesale Licenses	550	18,700.00
23	Beer Bottlers' Licenses	200	4,600.00
1474			

TRANSFERS.

631	Retail Transfers	$ 10	$ 6,310.00
8	Wholesale Transfers	10	80.00
5	Beer Bottlers' Transfers	10	50.00
644	Total Receipts		$647,390.00

DISBURSEMENTS.

4 Commissioners at $1,000	$ 4,000.00
2 Inspector's Salary, $1,800	3,600.00

FOR ADVERTISING LICENSES AND TRANSFERS IN THE DAILY NEWSPAPERS IN THE CITY.

Newark Evening News	$ 796.50
The Evening Star	796.50
The Morning Star	796.50
New Jersey Freie Zeitung	796.50
Books and Stationery	507.25
Incidental Expenses	210.00
Total Disbursements	$ 11,503.25

RECAPITULATION.

Receipts	$647,390.00
Disbursements	$ 11,503.25
Net Receipts	635,886.75
Total	$647,390.00

During the year 1913 the Board refused the following number of applications:

2 Wholesale Licenses, new applications.
1 Retail License, Renewal
34 Retail Transfers.
2 Retail Licenses revoked.

During the year 1913 the following were withdrawn:
50 Retail Transfers.
7 Beer Bottlers failed to renew their licenses.

Respectfully submitted,

RICHARD MILLER,
JOHN NIEDER,
JOHN GOEHRING,
EDWIN B. SMITH,
Board of Excise Commissioners.

ANNUAL REPORT

OF THE

Newark Free Dental Clinic Association

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

Newark Free Dental Clinic Association

For the Year 1913

There are at the present time two dental clinics operated by the Newark Free Dental Clinic Association. One is located at 74 Newton St., in the Playground Commission's Building. The other is at 553 Market St., in the Neighborhood House Building. Both clinics are open daily, except Sundays and holidays, from 9 A. M. to 5 P. M., for the free treatment of the poor children of Newark who are under the age of sixteen.

The Newton St. clinic has two morning and two afternoon operators, four in all, each serving one-half day. The Market St. clinic has one morning and one afternoon operator. There is also an attendant at each clinic. The attendants are on duty all day.

The patients are children who are referred to the clinics by the Public School Nurses, the Parochial Schools and the various charitable organizations throughout the city. The greatest care is shown these patients, and the ever increasing number of applicants for treatment proves the popularity as well as the necessity for the work. The clinics are equipped with modern apparatus and every sanitary precaution is taken, instruments are sterilized and a personal interest shown in each child.

The clinics are managed by the Newark Free Dental Clinic Association, an incorporated society, which administers an appropriation from the Finance Committee of the Common Council of the City of Newark of an amount not exceeding $10,000.00, according to the State law as amended in 1913 (see Pamphlet Laws 1910, page 294; P. L. 1911, page 112, and P. L. 1913).

The Board of Directors is composed of prominent business and professional men of this city, and this Board has full control and management of the clinics. The officers for 1913 are:

President.....MR. GEO. F. REEVE
Vice-President.....DR. CHAS. A. MEEKER
Secretary.....DR. WM. TALBOT
Treasurer.....MR. WILLARD I. HAMILTON
Chief Dental Surgeon.....DR. WENTWORTH HOLMES
Assistant Dental Surgeon.....DR. WM. L. FISH

Consulting Dental Surgeons

DR. N. A. BORNSTEIN DR. C. W. F. HOLBROOK
DR. JOSEPH KUSSY

The Directors elected in 1913 are:

For Three Years.

DR. CHAS. A. MEEKER
DR. WENTWORTH HOLMES
DR. C. W. F. HOLBROOK
DR. N. A. BORNSTEIN

For Two Years.

DR. WM. L. FISH
GEORGE F. REEVE
DR. C. S. VINSON
DR. F. G. GREGORY

For One Year.

Curtis R. Burnett
Willard I. Hamilton
Richard Denbigh
Dr. Wm. Talbot

These clinics are the outgrowth of an effort on the part of the charitable institutions of Newark to establish dental clinics. A number of different societies, with the aid of a few dentists, opened clinics in these two buildings June 15th, 1909. The apparatus and supplies were donated by dental supply houses, and the operators were practicing dentists who volunteered to serve without remuneration. The clinics were open twice a week from four to six P. M. At one time there were thirty-six volunteer operators on the staff. The organization was then known as the Newark Dental and Oral Surgical Clinic.

In a short time there was a waiting list of two hundred and twenty-six patients, and the volunteers were not able to meet the demand. The City officials were appealed to, and after legislation had made it possible for cities to appropriate money for dental clinics the City of Newark appropriated $1,000.00 in 1910.

This amount proved so inadequate that the law was amended, making possible the appropriation of an amount up to $5,000, and in 1911 this amount was appropriated to the Clinic Association, and in 1912 the same amount was again appropriated.

In the winter of 1912 and 1913 the law was again amended to limit the age to sixteen and to increase the appropriation to $10,000.00.

The accompanying report will show the great amount of work performed in the past twelve months.

Report for Year Ending December 31st, 1913.

Number of Individuals Treated—		
Market Street Clinic	1549	
Newton Street Clinic	3921	5470
Number of Treatments—		
Market Street Clinic	1202	
Newton Street Clinic	3232	4434
Number of Cleanings—		
Market Street Clinic	1179	
Newton Street Clinic	917	2096
Number of Fillings—		
Market Street Clinic	4458	
Newton Street Clinic	7083	11541
Number of Extractions—		
Market Street Clinic	2989	
Newton Street Clinic	4849	7838
Number of Other Operations—		
Market Street Clinic	85	
Newton Street Clinic	129	214
Total Operations—		
Market Street Clinic	9913	
Newton Street Clinic	16210	26123
Number Referred from Public Schools—		
Market Street Clinic	855	
Newton Street Clinic	3305	4160
Number Referred from Parochial Schools—		
Market Street Clinic	297	
Newton Street Clinic	298	595
Number Referred from Other Sources—		
Market Street Clinic	291	
Newton Street Clinic	144	435
Number with No Reference—		
Market Street Clinic	106	
Newton Street Clinic	174	280

Respectfully submitted,

WENTWORTH HOLMES,

Chief Dental Surgeon.

ANNUAL REPORT

OF THE

DEPARTMENT
Weights and Measures

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

Department of Weights and Measures

To the Honorable, the Mayor and Common Council of the City of Newark:

GENTLEMEN:—I present herewith a report of the Department of Weights and Measures during the year 1913:

Spring Scales	1,921
Counter Scales	3,683
Platform Scales	745
Wagon Scales	313
Beam Scales	209
Computing Scales	581
Yard Measure	1,402
Dry Measure	10,592
Liquid Measure	3,015
Scales adjusted	141
Weights adjusted	61
Scales condemned	221
Scales confiscated	60
Weights confiscated	131
Loads of Coal reweighed	109
Certificates issued	4,286
Barrels	340
Baskets	4,000
Boxes	174
Weights	19,610
Bags of Coal reweighed	500
Packages reweighed	648
Total instruments inspected	48,456

Number of Convictions.....16
Amount of Fines Collected.....$850.00
Complaints Adjusted Out of Court.....6

Respectfully submitted,

JOHN H. SULLIVAN,

Superintendent of Weights and Measures.

ANNUAL REPORT

OF THE

Newark City Hospital

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

MEMBERS OF THE BOARD OF HEALTH

DR. H. C. H. HEROLD, *President,*
1012 Broad Street

Dr. J. T. Wrightson.....25 Walnut Street
Timothy F. Foyle.....326 Warren Street
C. W. Baker.....234 Roseville Avenue
John H. McLean.....259 South Tenth Street
Dr. George L. Warren.....77 Houston Street
Chas. L. Whitfield.....384 Summer Avenue
Dr. R. H. Diffenbach.....570 Mt. Prospect Avenue
Dr. F. B. Meeker.....63 First Street
Otto B. Schalk.....455 Fourth Avenue
David D. Chandler, *Secretary*.....376 Roseville Avenue

COMMITTEES

Committee on Newark City Hospital

DR. J. T. WRIGHTSON, *Chairman.*

Dr. George L. Warren
Dr. Frank B. Meeker
Timothy F. Foyle
John H. McLean

Committee on Training School

DR. FRANK B. MEEKER, *Chairman.*

Dr. J. T. Wrightson
Dr. George L. Warren
Dr. R. H. Diffenbach
Dr. C. H. Herold

Executive Committee of the Attending Staff

DR. CARLYLE E. SUTPHEN, *Chairman.*

Dr. James H. Lowrey
Dr. Edward Staehlin
Dr. Arthur C. Dougherty

HOUSE OFFICERS

Superintendent
CHARLES E. TALBOT

Assistant Superintendent
JOHN PREISEL

Chief Clerk
JOHN C. VIDT

Principal of Training School
MISS MARY F. MASON

Assistant Principal of Training School
MISS CAROLYN M. SCHMOKER

Night Supervisor
MISS AGNES M. KEANE

Operating Room Supervisor
MISS MARY E. NAGLE

Matron
MISS ANNA C. BAUER

Apothecary
A. B. NORCROSS

Historian
MISS ANNA M. FLOOD

Telephone Operator

Stenographer
JOHN P. ROGERS

Night Superintendent
MICHAEL GOUGHERTY

HOUSE STAFF

For the Year ending December 31, 1913.

Receiving Officer

AMBROSE F. DOWD, M. D.

DR. WALTER ZULAUF.....Feb. 1st, 1914
DR. HERBERT R. VAN NESS.....Feb. 1st, 1914
DR. WALTER W. SCHMIDT..... June 1st, 1914
DR. HARRY N. COMANDO.....June 1st, 1914
DR. JOSEPH B. CONNOLE.....Oct. 1st, 1914
DR. GEORGE E. HARHEN.....Oct. 1st, 1914
DR. JOSEPH C. BALSON.....Feb. 1st, 1915
DR. GEORGE VANNATTA.....Feb. 1st, 1915
DR. WALLACE HURFF.....June 1st, 1915
DR. ELROY SMITH.....June 1st, 1915
DR. ALLAN S. KIRKWOOD.....Oct. 1st, 1915
DR. MAURICE TIETELBAUM.....Oct. 1st, 1915

ATTENDING STAFF OF THE NEWARK CITY HOSPITAL

DR. A. C. DOUGHERTY, *President*

158 Washington Street

DR. E. W. MURRAY, *Secretary*

91 Washington Avenue

EMERITUS

Emeritus Physicians

GEORGE R. KENT, M. D.
CHARLES F. UNDERWOOD, M. D.

Emeritus Surgeons

ARCHIBALD MERCER, M. D.
L. E. HOLLISTER, M. D.

MEDICAL DEPARTMENT

Attending Physicians

E. W. MURRAY, M. D.
JAMES H. LOWREY, M. D.
HUGH F. COOK, M. D.
A. C. DOUGHERTY, M. D.

Assistant Physicians

E. W. SPRAGUE, M. D.
F. C. HORSFORD, M. D.

SURGICAL DEPARTMENT

Attending Surgeons

CARLYLE E. SUTPHEN, M. D.
FRANCIS R. HAUSSLING, M. D.
EDWARD STAEHLIN, M. D.
CHARLES H. RANDALL, M. D.

Assistant Surgeon

FRANK M. PAUL, M. D.

MATERNITY DEPARTMENT

Attending Obstetricians

A. J. MITCHELL, M. D.
H. C. H. HEROLD, JR., M. D.

GYNAECOLOGICAL DEPARTMENT

Attending Gynaecologists

E. ZEH HAWKES, M. D.
WILLIAM GAUCH, M. D.

Assistant Gynaecologist

EDWARD FITZPATRICK, M. D.

Consulting Gynaecologist

EDWARD J. ILL, M. D.

OPHTHALMOLOGICAL AND OTOLOGICAL DEPARTMENT

Attending Ophthalmologist and Otologist

WELLS P. EAGLETON, M. D.

Assistant Ophthalmologist and Otologist

E. A. CURTIS, M. D.

ORTHOPEDIC DEPARTMENT

Attending Orthopedic Surgeon

SIDNEY A. TWINCH, M. D.

PEDIATRIC DEPARTMENT

Attending Pediatrists

DANIEL ELLIOTT, M. D. M. R. WHITENACK, M. D.

Assistant Pediatrist

IRVING SCOTT, M. D.

DERMATOLOGICAL DEPARTMENT

Attending Dermatologist

H. J. F. WALLHAUSER, M. D.

Assistant Dermatologist

LOUIS A. KOCH, M. D.

NEUROLOGICAL DEPARTMENT

Attending Neurologist

C. C. BELING, M. D.

GENITO-URINARY DEPARTMENT

Attending Genito-Urinary Surgeon

C. R. O'CROWLEY, M. D.

Assistant Genito-Urinary Surgeon

W. J. WARD, M. D.

ROENTGENOLOGICAL DEPARTMENT

Roentgenologist

CHARLES F. BAKER, M. D.

PAHTOLOGICAL DEPARTMENT

Pathologist

HARRISON S. MARTLAND, M. D.

Bacteriologist

RICHARD N. CONNOLLY, M. D.

Anaesthetist

FRANK W. PINNEO, M. D.

Consulting Dentist

C. W. F. HOLBROOK

Receiving Officer

AMROSE DOWD, M. D.

SUPERINTENDENT'S REPORT

To the Honorable Hospital Committee of the Board of Health of Newark, N. J.:

GENTLEMEN:—I have the honor to submit to you the thirty-second annual report of the City Hospital for the year ending December 31st, 1913.

The year has been a most trying one on account of the overcrowded wards. It is gratifying, however, that steps are being taken to relieve this congestion.

The number of patients treated were 10,211. The number of days treatment given was 139,699. There was 420 births and 824 deaths. The daily average was 382.

The total expenditures for all departments were $187,154.90; this amount exceeded 1912 expenditures by $3,499.48. The number of days' treatment for the year exceeded 1912 by 8,342. The Departmental Expenses will be found under their different headings.

Thanking you for your support and confidence.

Yours very truly,

C. E. TALBOT,
Superintendent.

STATEMENT OF REVENUE AND EXPENDITURES

FOR 1913

1913.				
Mar.	10	To Cash Deposited with Comptroller	$188.33	
Apr.	26	To Cash Deposited with Comptroller	144.21	
July	8	To Cash Deposited with Comptroller	240.49	
Aug.	2	To Tax Ordinance Appropriation		$163,500.00
Sept.	3	To Cash Deposited with Comptroller	258.85	
Sept.	6	To Supplemental Appropriation		5,000.00
Oct.	4	To Supplemental Appropriation		2,500.00
Nov.	8	To Supplemental Appropriation		2,500.00
Dec.	29	To Cash Deposited with Comptroller	582.09	
Dec.	21	To Additional Appropriation		2,246.95
		To Cash Deposits		1,407.97
				$187,154.92

EXPENDITURES.

Dec.	31	By Salaries	$ 63,812.32
		By Supplies	123,342.60
			$187,154.92

STATEMENT OF CASH DEPOSITED WITH COMPTROLLER FOR 1913

Ambulance	$ 14.00	
Anti-Toxin	5.10	
Bones and Fat	589.42	
Belts	96.17	
Dressings	42.68	
Junk	66.62	
Miscellaneous	23.74	
Reporting of Contagious Diseases	21.80	
Telephone	49.00	
Thermometers	3.50	
Unclaimed Wages	495.94	
		$1,407.97

STATEMENT OF EXPENDITURES FOR 1913

	Salaries.	Supplies.
ADMINISTRATION EXPENSES—		
Salaries (Officials and Clerks)—		
Superintendent	$ 2,700.00	
Assistant Superintendent	1,524.00	
Office Force	4,784.36	
Stationery, Printing and Postage		$ 762.84
Telephone and Telegrams		833.12
Office Expense		53.77
Historian		
Salary	720.00	
Supplies		522.25
Miscellaneous		849.77
PROFESSIONAL CARE OF PATIENTS—		
Salaries—		
Pharmacist	1,032.00	
Superintendency Train. School.	14,164.00	
Nurses	8,637.00	
Orderlies	5,225.36	
Ward Maids	4,153.41	
Medical Supplies		5,386.71
Surgical Supplies		7,892.84
Apparatus and Instruments		567.70
Alcohol		375.02
Wine and Liquors		1,465.36
Miscellaneous		271.11

DEPARTMENT EXPENSES—		
Ambulance—		
Salaries	3,620.00	
Supplies (new ambulance)	3,000.00	5,038.14
X-Ray—		
Roentgenologist	1,000.00	
Supplies		708.46
Pathological Laboratory—		
Salaries	2,064.00	
Supplies		330.82
Training School—		
Salaries	2,745.51	
Supplies		862.57
Laundry —		
Salaries	4,731.37	
Supplies		921.64
Housekeeping—		
Salary and Wages—		
Matron	1,020.00	
Cleaners	1,241.92	
Porters	1,678.60	
Waitresses	740.68	
Supplies		2,302.61
Linen, Clothing and Bedding—		
Salaries	516.00	
Supplies		7,641.26
Kitchen—		
Salaries and Wages—		
Butcher	600.00	
Baker	750.00	
Chef	960.00	
Kitchen Help	2,153.73	
Supplies		476.68

Store Room—		
Salaries	1,020.00	
Supplies—		
Flour		2,058.45
Groceries		11,232.30
Milk and Cream		9,397.83
Butter and Lard		6,660.56
Eggs		5,387.12
Fruits and Vegetables		4,842.30
Fish		2,314.62
Meat		17,663.34
Poultry		2,526.36
GENERAL AND PROPERTY EXPENSES—		
Coal and Oil		9,537.44
Electric Light		4,380.33
Electric Power		1,014.94
Gas		1,340.97
Ice		2,442.67
Insurance		1,084.25
Maintenance, Real Estate —		
Salaries	1,380.00	1,380.00
Supplies and Repairs		3,205.39
Maintenance, Machinery and Tools—		
Salaries	4,692.88	
Supplies		899.00
Miscellaneous		92.17
Salaries and Wages	$ 63,812.32	
Supplies		123,342.60
Total		$187,154.92

STATISTICS—NEWARK CITY HOSPITAL

Number and Description of Patients in the Newark City Hospital, Newark, N. J.		Patients Remaining at Beginning of the Year 1913	Admitted	Discharged	Births	Deaths	Patients Remaining at the End of the Year 1913
White	Adults —Males	208	4,817	4,379	.....	472	174
	" Females	58	2,345	2,139	.....	178	86
	Children—Males	28	1,187	1,299	192	68	40
	" Females	18	567	637	152	46	54
Black	Adults —Males	6	200	176	.....	25	5
	" Females	11	283	256	.....	24	15
	Children—Males	5	24	59	38	4	4
	" Females	9	25	59	38	7	6
	Total	343	9,448	9,004	420	824	383

Number Patients treated during year	10,211
Daily average number Patients	382.4
Number days treatment each Patient	13.6
Total number days of treatment	139,699

STATISTICS NEWARK CITY HOSPITAL—*Continued*

AGES.

Under 1 year	563	Between 50 and 60	724
Between 1 and 5	414	" 60 and 70	396
" 5 and 10	613	" 70 and 80	141
" 10 and 20	1,502	" 80 and 90	29
" 20 and 30	2,334	Unknown	175
" 30 and 40	1,744		9,873
" 40 and 50	1,238		

SOCIAL CONDITIONS.

Single	5,334	Divorced	2
Married	3,693	Unknown	73
Widowed	350		9,873
Widowers	421		

NATIVITY.

Armenia	4	Germany	472
Austria	276	Greece	27
Alaska	1	Hungary	89
Australia	1	Holland	15
Brazil	2	Ireland	574
Bohemia	2	Italy	601
Belgium	4	Jamaica	2
Canada	27	Luthuania	1
China	6	Norway	9
Cuba	1	New Foundland	3
Denmark	18	Poland	114
England	219	Portugal	1
France	12	Persia	3
Finland	5	Roumania	11

STATISTICS NEWARK CITY HOSPITAL—*Continued*

Russia	427	Turkey	4
Switzerland	20	United States	6,689
South America	1	Unknown	92
Sweden	28	Venezuela	1
Scotland	93	Wales	5
Servia	3	West Indies	2
Slavonia	7		
Spain	1		9,873

STATISTICS NEWARK CITY HOSPITAL—*Continued*

NUMBER OF DEATHS IN 1913

With Time in Hospital

Died	within	36	hours	after	admission	184
"	"	2	days	"	"	107
"	"	4	"	"	"	54
"	"	5	"	"	"	54
"	"	6	"	"	"	23
"	"	1	week	"	"	28
"	"	2	"	"	"	95
"	"	3	"	"	"	57
"	"	1	month	"	"	44
"	"	2	"	"	"	74
"	"	3	"	"	"	22
"	"	4	"	"	"	18
"	"	5	"	"	"	5
"	"	6	"	"	"	6
"	"	7	"	"	"	2
"	"	8	"	"	"	3
"	"	9	"	"	"	..
"	"	10	"	"	"	3
"	"	11	"	"	"	..
"	"	1	year	"	"	..
"	"	2	"	"	"	3
"	"	3	"	"	"	2
"	"	4	"	"	"	1
"	"	9	"	"	"	1
"	"	11	"	"	"	1
						824

AMBULANCE SERVICE—1913

Newark City Hospital	2,933
St. Barnabas' Hospital	139
St. James' Hospital	79
St. Michael's Hospital	251
German Hospital	122
Beth Israel Hospital	242
Overbrook Hospital	30
Women's and Children's Hospital	40
Newark Private Hospital	4
Babies' Hospital	2
Homeopathic Hospital	2
Newark Maternity Hospital	13
Presbyterian Hospital	14
Eye and Ear Infirmary	3
Taken Home	136
Dead on Arrival	50
No Patient Found	71
Taken to Morgue	1
Refused to go to Hospital	222
Home for Crippled Children	3
Alms House	8
Not Removed	42
Taken by Police	29
Old Ladies' Home	1
Smith & Smith	1
	4,438

NEWARK CITY HCSPITAL

TRAINING SCHOOL FOR NURSES.

The Training School for Nurses, connected with the Hospital, was established in 1886, for the purpose of giving three years' proper training to women who desire to become professional nurses.

The nurses are under the direct supervision of the Principal of the school, whose authority extends over all that pertains to their duties and discipline while in the Hospital and Home, subject to the control of the Committee of the Board of Health, and such rules and regulations as are provided for in the by-laws.

Candidates must be in good health, have at least two years' High School education, and be from twenty to thirty-two years of age. When making application for admission, either by letter or in person, they are required to file answers to the questions in the regular form, accompanied by letters from two responsible persons not of their own kin, attesting to their moral character and abilities.

An examination will be made and a certificate given by a member of the Training School Committee as to health and physical capacity for the duties of a nurse.

The first two months are of probation, in which the fitness of the applicant is determined, and her application either approved or rejected by the Committee, but during this probationary period no money consideration shall be taken.

After signing an agreement to remain with the Hospital during their term of service and promising to conform to its discipline, they shall be known as pupil nurses.

The home was built in 1899. It adjoins and is connected with the Hospital and was constructed with a view of furnishing cheerful, comfortable, homelike surroundings with the most improved conditions necessary to good health and personal hygiene.

Besides lectures, recitations and demonstrations, instructions are given by the Principal and by the visiting and resident Physicians and Surgeons at the beside of the patient.

The pupil nurses receive $8.00 per month for the first year, exclusive of the probationary month; $10.00 for the second year; $12.00 for the third year. This is allowed them for expenses necessary to the pursuit of their studies, such as dress, text books, etc. It is not considered as wages, as the education received is regarded as full compensation for their services.

Night nurses are on duty from 7 P. M. until 7 A. M. and day nurses from 7 A. M. until 7 P. M. One afternoon each week is given for recreation, as well as two weeks' vacation each year.

In sickness all nurses shall be cared for gratuitously by members of the Staff only.

When coming to the Hospital they are required to bring the following articles: Three gingham dresses, eight large white aprons, plenty of plain underclothing, two laundry bags and one napkin ring. Have all clothing carefully marked with owner's full name.

The course requires three years, and embraces general medical and surgical nursing, as well as ophthalmic, aural, gynaecological, obstetrical, children's and contagious diseases.

COURSE OF INSTRUCTION

The instructions include:

Care of sick.

Dressing wounds, burns and ulcers.

Instructions in medical and surgical emergencies.

Application of blisters, fomentations, poultices, cups and leeches.

Use of catheter and administration enementat.

Application of friction.

Making rollers and bandaging.

Making beds, changing draw sheets, moving patients and preventing bed sores.

Application and management of surgical apparatus.

Recording symptoms.

Preparing, cooling and serving delicacies for the sick and feeding helpless patients or those who resist food.

They are taught how to act in emergencies occurring in hospital or private nursing. They are given instructions in the best practical methods of supplying fresh air, warming and ventilating sick rooms and wards; in keeping utensils perfectly clean and disinfected; to make accurate observations and reports to the physicians of the state of the secretions, expectorations, pulse, skin, appetite, temperature of body; intelligence as to delirium or stupor, breathing, sleep, condition of wounds, eruptions, formations of matter, effect of diet, stimulants or medicines, and the management of convalescents.

COURSE OF INSTRUCTION

In addition to the above mentioned practical instructions, lectures and demonstrations on the following subjects were given:

Tuberculosis—Dr. H. C. H. Herold.
Diseases of the Throat and Nose—Dr. T. W. Corwin.
Diphtheria and its Antitoxins—Dr. R. N. Connolly.
Diseases of the Skin—Dr. H. F. W. Wallhauser.
Physiology—Dr. Carl Sutphen.
Therapeutics—Dr. E. H. Goldberg.
Materia Medica—Dr. William Disbrow.
Asepsis and Antisepsis—Dr. F. R. Haussling.
Anatomy—Dr. H. R. Martland.
Medicine—Dr. F. W. Pinneo.
Gynecology—Dr. E. Guenther.
Obstetrics—Dr. E. W. Sprague.
Legal Regulations—Mr. D. D. Chandler.
Infant Feeding—Dr. E. G. Wherry.
Diseases of the Eye and Ear—Dr. E. S. Sherman.
Toxicology—Dr. R. M. Whitenack.
Teeth and Their Care—Dr. L. McManus.
Urinalysis—Dr. S. Shailer.
Anaesthesia——Dr. Petry.
Dietetrics—Miss Margaret Adrian.
Care of Insane—Dr. C. Beling.

It is the desire of the pincipal of the Training School to express her sincere thanks for the prompt and faithful services rendered her in her efforts to obtain the highest efficiency possible from the pupil nurses under her care.

LIST OF GRADUATES

1888.

Force, Miss Lizzie C., now Mrs. Parkhurst..Verona, N. J.
Seeber, Miss Annie E., private nurse.....Newark, N. J.

1889.

Bryce, Miss Isabel, private nurse.....Helena, Montana
Daniels, Miss Harriet N., married.....
Godfrey, Miss Grace, private nurse.....Plainfield, N. J.
Norton, Miss Ella E., private nurse.....Newark, N. J.
Phillips, Miss Alice E.....
Smith, Miss Ella, now Mrs. McPherson,
College Point, N. Y.
Tucker, Miss Kate, now Mrs. Wells..Newbury Centre, Vt.

1890.

Conger, Miss Laura, now Mrs. Hale.....Detroit, Mich.
March, Miss Clara, now Mrs. Wisdom.....Chicago, Ill.
O'Neill, Miss Tessie, private nurse.....Buffalo, N. Y.
Seward, Miss Hanah, private nurse.....Newark, N. J.
Selander, Miss Martha, now Mrs. Wyatt....Newark, N. J.
Woellmer, Miss Carrie, deceased.....

1891.

Clark, Miss Rachel T.....
Fulton, Miss Margaret, now Mrs. Pool....Newark, N. J.
Hough, Mrs. Kate, private nurse.....New York, N. Y.
Holley, Miss Sara, deceased.....
Jamieson, Miss Agnes E., now Mrs. Graham,
New York, N. Y.
Meade, Miss Lulu W., private nurse....Washington, D. C.
O'Neill, Miss Kate M., private nurse.....Canada

LIST OF GRADUATES—*Continued*

Pennock, Miss Emma, now Mrs. McNair...Newark, N. J.
Phillips, Miss Georgia, private nurse....Morristown, N. J.
Scott, Miss Bell, private nurse.....Newark, N. J.
Shepard, Miss Carolyn E., district nurse.....N. Y. City
Woodhouse, Miss Nannie, married.... Woodbridge,N. J.

1892.

Daniel, Miss May, private nurse.....New York City
Dellworth, Miss Emma V., private nurse...Newark, N. J.
Huestis, Miss Jennie, now Mrs. Pong....Montclair, N. J.
Hawkins, Miss Annie, private nurse.....New York City
Morse, Miss Stella, now Mrs. Wiggins...St. Ausga, Iowa
McFarland, Miss Eleanor M., private nurse,
Elizabeth, N. J.
Skillman, Miss Ella M., private nurse.....Newark, N. J.
Simmons, Miss Mary G.....Columbia, S. C.
Taylor, Miss Helen A.....New York City

1893.

Bolles, Miss Celia J., M. D.....Philadelphia, Pa.
Fales, Miss Eva E., now Mrs. Jones.....New York City
Joralemon, Mrs. Ida.....Newark, N. J.
Lovejoy, Miss Ida M. (Mrs. Roaber), deceased.....
Mueller, Miss Emma, Sup't Home for Crippled Children,
Newark, N. J.
McColl, Miss Flora H., now Mrs. Hueston..Newton, N. J.
Murphy, Miss Kate M., private nurse.....New York City
Olierenshaw, Miss Sara W., now Mrs. Malone,
Brooklyn, N. Y.
Sheridan, Miss Kate L., North Brothers' Island
Hospital .....New York
Taylor, Miss Jennie G., married.....
Welles, Miss Louise, now Mrs. MacDonald..Newark, N J.

LIST OF GRADUATES—*Continued*

1894.

Horn, Miss Carrie W., now Mrs. Corey....Newark, N. J.
Hickey, Miss Annie R., private nurse.....Madison, N. J.
Mulliken, Miss Ida C., private nurse.....Madison, N. J.
O'Flynn, Miss Martha J., now Mrs. Hanrahan,
New York City
Squires, Miss Delilah, married.....Plainfield, N. J.
Walker, Mrs. Sara Edith, now Mrs. Foyle..Newark, N. J.

1895.

Atkinson, Miss Cornelia, now Mrs. Whitehead,
Newark, N. J.
Brogan, Miss Mary L., deceased.....
Brydon, Miss Margaret R., now Mrs. Laird,
Newark, N. J.
Burr, Miss Helen T., married.....
Ekegren, Miss Christine, district nurse....Newark, N. J.
Gilbertson, Mrs. Mary A., married.....
Holly, Miss Harriet D., private nurse.....Plainfield, N. J.
Harvey, Miss Ethel V.....Newark, N. J.
Kohler, Miss Marie, at home.....Germany
Neish, Miss Ada E., private nurse.....New York City
Steel, Miss Elizabeth B....Fishkill-on-the-Hudson, N. Y.
Tompkins, Miss Olive E., deceased.....

1896.

Ball, Miss Sara E., now Mrs. Maybury...Gladstone, N. J.
Cole, Miss Mary L., private nurse.....Brooklyn, N. Y.
Elsden, Miss Alice J., private nurse.....Newark, N. J.
Farmer, Miss Mary A. (Mrs. Adams), deceased.....
Grant, Miss Mabel J., district nurse.....Newark, N. J.
Hankinson, Miss Bessie J., deceased.....
Jones, Miss Emily, private nurse.....Newark, N. J.
Kirsten, Miss Alice, now Mrs. Dean..Orange Valley, N. J.
O'Hara, Miss Edna M., private nurse.....Newark, N. J.
Pallister, Miss Edith J., at home.....Canada
Stevens, Miss Anna R., now Mrs. Stewart...St. Louis, Mo.

LIST OF GRADUATES—*Continued*

1897.

Dower, Miss Maud F., private nurse.....Plainfield, N. J.
Howe, Miss Jennie, married.....Ireland
Hawes, Miss Gertrude, private nurse.....Brooklyn, N. Y.
Haefeli, Miss Elizabeth S., private nurse...Newark, N. J.
Harvey, Miss Beatrice S., now Mrs. Vail..Belleville, N. J.
Kirsten, Miss Annie M., private nurse.....Newark, N. J.
Meiselback, Miss Rose, now Mrs. Vanorden,
Caldwell, N. J.
Stonehouse, Miss Kathleen J. C., private nurse,
New York City
Siver, Miss Gertrude.....Albany, N. Y.

1898

Anderson, Miss Victoria S., district nurse,
Morristown, N. J.
Bruce, Miss Mary A. C., private nurse.....Canada
Crogan, Miss Katherine R., private nurse..New York City
Mason, Miss Mary Frances, Principal Training School,
Newark City Hospital
Marvin, Miss Elizabeth Cooke, now Mrs. Sisserson,
Newark, N. J.
Possien, Miss Pauline A., now Mrs. Meeker,
Roseville, N. J.
Peticrew, Miss Margaret A., private nurse..Corning, N. Y.
Souter, Miss Jessie E., private nurse.....Newark, N. J.
Smith, Miss Nellie M., private nurse.....Canada
Tompkins, Miss Matilda A., now Mrs. Russell,
East Orange, N. J.
Walton, Miss Elma B., deceased.....

LIST OF GRADUATES—*Continued*

1899

Bennett, Miss Carrie, married.....Canada
Brainard, Miss Maud, private nurse.....Newark, N. J.
Dexter, Miss Laura, private nurse.....Newark, N. J.
Gay, Miss Louise, private nurse.....Orange, N. J.
Heath, Miss Bertha, now Mrs. Snyder.....Roseville, N. J.
Nordquist, Miss Marie, now Mrs. Butler....Bristol, Tenn.
Oakley, Miss Anna, deceased.....
Smith, Miss Clara, now Mrs. Young.....Hilton, N. J.
Schmoker, Miss Carolyn, Asst. Principal Training School, Newark City Hospital....Newark, N. J.
Schmoker, Miss Rose, Sup't Newark Private Hospital .....Newark, N. J.

1900

Armitage, Edith R., now Mrs. Catlow.....Harrison, N. J.
Becker, Louise M., private nurse.....Montclair, N. J.
Dower, Eleanor B., deceased.....
Huggan, Ellen P., private nurse.....Newark, N. J.
Johnson, Margaret A., deceased.....
Kek, Wilhelmina A., now Mrs. Stanley, Iloilo, Philippine Islands
Meyer, Hermina F.....Newark, N. J.
Mason, Blanche G., private nurse.....East Orange, N. J.
Terry, Cornelia, now Mrs. Reiser.....East Orange, N. J.
Underwood, Harriet K., private nurse.....Newark, N. J.
Westervelt, Jean W., now Mrs. Powell, East Orange, N. J.

1901.

Allen, Helen M., married.....Summit, N. J.
Gantt, Laura M., private nurse.....Newark, N. J.
Huggan, Margaret, district nurse.....Newark, N. J.
Monell, Florence E., Supt. Dr. Comstock's Private Hospital.....Saratoga Springs, N. Y.

LIST OF GRADUATES—*Continued*

Markey, Mary, now Mrs. Regan.....Newark, N. J.
Riley, Edith, superintendent and head nurse, Newark Tuberculosis Sanitarium.....Newark, N. J.
Swan, Helen M., private nurse.....Kirkwood, Mo.
Sax, Laura, now Mrs. Crawford.....Newark, N. J.
Zimmerman, Annie, Assistant Superintendent of Nurses, County Isolation Hospital...Soho, N. J.
Jackson, Jame M., married.....Kansas City, Mo.
Livingston, Ruth L., private nurse.....Newark, N. J.

1902.

Barnard, Miss Alice A., married.....Panama
Flynn, Catherine R., private nurse...South Orange, N. J.
Jones, Catherine, private nurse.....Newark, N. J.
Adam, Jean M., now Mrs. Saterthwait....Seechville, N. C.
McCue, Mamie F., Superintendent of Nurses, County Isolation Hospital.....Soho, N. J.
Mattson, Ida E., now Mrs. Nordquist.....
Souter, Margie, married.....Newark, N. J.
Cullen, Jessie M., private nurse.....Short Hills, N. J.
Perry, Emma, private nurse.....Newark, N. J.
Richards, Louise, now Mrs. Wheaton.....Newark, N. J.
Hall, Ethel M., private nurse.....New York City
Benjamin, Eleanor S., now Mrs. Crane.....Newark, N. J.
Lowe, Martha A., private nurse.....Newark, N. J.
MacMahon, Muriel, private nurse.....Newark, N. J.

1903.

Regan, Anna, private nurse.....New York City
Bell, Stata H., now Mrs. W. W. Rose.....Hartford, Conn.
Balshiser, Elizabeth, private nurse.....Newark, N. J.
Stauffer, Beulah, private nurse.....Newark, N. J.
Fischer, Ioma E., now Mrs. Reeves.....So. Boston, Mass.
Livingston, Ruth L., private nurse.....Newark, N. J.

LIST OF GRADUATES—*Continued*

Colley, Mabel P., now Mrs. Green.....New York City
Nicol, Ella M., now Mrs. Paxton.....Galt, Canada
Stauffer, Florence E., now Mrs. Kauffman.....Lititz, Pa.
Austin, Ida F., private nurse.....East Orange, N. J.
Christman, Annie, now Mrs. Whitfield..New Haven, Conn.
Duncan, Mrs. Eliza A., now Mrs. Peck.....Caldwell, N. J.
Herron, Katherine L., private nurse....Bordentown, N. J.
Aller, Corina D., now Mrs. Peebles.....Newark, N. J.
Schmidt, Sophia, private nurse.....Newark, N. J.

1904.

Flanagan, Suzan, Supt. St. Catherine's Hospital, Omaha, Neb.
Miller, Libbie, deceased.....
Stoddard, Martha, now Mrs. Fralick.....New York City
Rothlein, Mary, now Mrs. Beach.....Newark, N. J.
Ward, Lavina, district nurse.....Newark, N. J.
Dowers, Vida, now Mrs. Sandy.....New York City

1905

Aldridge, Louise, private nurse.....Newark, N. J.
Salmon, Catherine, private nurse.....Bridgeport, Conn.
Gibson, Agnes, married.....China
Copeman, Harriet, private nurse.....South Orange, N. J.
Bicksler, Elizabeth, now Mrs. Ulrich.....Newark, N. J.
Maher, Ella, now Mrs. Keoski.....Newark, N. J.
Green, Ella, now Mrs. Nordt.....Newark, N. J.
Leahy, Nellie, private nurse.....Newark, N. J.
Gaddis, Elizabeth, private nurse.....Newark, N. J.
Colvin, Grace E., private nurse.....East Orange, N. J.
Evans, Ethel, now Mrs. Matheun.....Newark, N. J.
Carle, Edith, private nurse.....Wilkesbarre, Pa.

LIST OF GRADUATES—*Continued*

Klingle, Rose, private nurse.....Newark, N. J.
Duncan, Emily, married.....Kearny, N. J.
Parton, Harriet, private nurse.....Newark, N. J.
Beach, Mrs. Ruth, Dr. Bull's Private Hospital, New York City

1906.

Close, Jessie, private nurse.....Newark, N. J.
Close, Bessie, private nurse.....Newark, N. J.
Smith, Sophia, now Mrs. Banister.....Newark, N. J.
Souter, Elizabeth M., now Mrs. Greenwood, Newark, N. J.
Ross, Edith, private nurse.....Newark, N. J.
Sincock, Kate, private nurse.....Kearny, N. J.
Hopper, Edna, now Mrs. Williams.....Keansburg, N. J.
Knowles, Angie, private nurse.....Kearny, N. J.
Beach, Florence, now Mrs. Smalley..Liberty Corners, N. J.
Nicol, Ida M., private nurse.....New York City
Coddington, Ethel, private nurse.....Los Angeles, Cal.
Squire, Nellie, now Mrs. Addis.....Newark, N. J.
Erskine, Elizabeth, now Mrs. Williams....Rushville, N. Y.
Hopkins, Annie G., now Mrs. Kitchell.....Newark, N. J.
Reid, Estelle, now Mrs. Atchison.....Newark, N. J.
Honey, Jane, private nurse.....Newark, N. J.
Wagner, Ida, now Mrs. Roderman.....Newark, N. J.
Bowers, Barbara, private nurse.....Newark, N. J.
Keane, Agnes, night supervisor, City Hospital, Newark, N. J.
McKevitt, Sadie, private nurse.....Newark, N. J.
Van Steenburg, Ella, Nurses' Home, 66 Broad Street .....Newark, N. J.
Buchanan, Isabelle, now Mrs. Woonmer...Belleville, N. J.
Murdock, Mabel, Dr. Bull's Private Hospital, New York City

LIST OF GRADUATES—*Continued*

1907.

Stewart, Vara, private nurse.....Maplewood, N. J.
Phelan, Agnes, now Mrs. Crowe.....Newark, N. J.
Quinn, Margaret, private nurse.....Newark, N. J.
Tesch, Ella, private nurse.....Newark, N. J.
Hobson, Irene, private nurse.....Newark, N. J.
Quinn, Kathryn, now Mrs. Guidera.....Newark, N. J.
Griffiths, Mary, private nurse.....Newark, N. J.
Barton, Elizabeth, private nurse.....Newark, N. J.
Maynard, Frances, private nurse.....Newark, N. J.
Lawrence, Mary, private nurse.....Newark, N. J.
Cavanaugh, Kathryn, now Mrs. Russell,
Glen Ridge, N. J.
See, Dorothy, private nurse.....Newark, N. J.
Black, Georgia, private nurse.....Pawtucket, N. J.
Bennett, Helen, private nurse.....Newark, N. J.
Abbott, Henrietta, private nurse.....New York City

1908

Stauffer, Sue M., married.....
Clarke, Mary A., private nurse.....Newark, N. J.
Morgan, Minnie M., private nurse.....New York City
DeGroot, Florence E., private nurse.....Newark, N. J.
Van Gelder, Sarah, Supt. Nurses, Beth Israel
Hospital .....Newark, N. J.
Heath, Ellen B., private nurse.....Newark, N. J.
Hunter, Ida A., private nurse.....New York City
Dobbs, Mabel F., private nurse.....New York City
Freeman, Emma W., private nurse.....Newark, N. J.
Hargraves, Bessie J., now Mrs. Thorn.....Newark, N. J.
Clemens, Cora M., private nurse.....Newark, N. J.
Rosenkrans, Anna C., married.....Waterbury, Conn.

LIST OF GRADUATES—*Continued*

Nuttall, Iva L., married.....Waterbury, Conn.
Taylor, Marguerite F., private nurse.....Newark, N. J.
Burns, Maud W., married.....Sea Cliffe, N. J.
Outt, Agnes L., now Mrs. Keeler.....Newark, N. J.
Miner, Abra H., private nurse.....New York City
Bruce, Margaret, private nurse.....Newark, N. J.
Shea, Margaret, now Mrs. Cruse.....Newark, N. J.
Gordon, Mary, now Mrs. Nash.....Irvington, N. J.
Gondon, Blanche, private nurse.....Newark, N. J.
MacKenzie, Florence, private nurse.....Newark, N .J.
Brainard, Agnes V., now Mrs. Chalmers.....Virginia
Rusch, Dorethea L., private nurse.....Newark, N. J.
Whitaker, Lily, now Mrs. Cornwell.....Brighton, N. J.
Golden, Hannah, now Mrs. Lamb.....East Orange, N. J.
Kline, Clara, private nurse.....Newark, N. J.

1909

Turner, Eleanor E., now Mrs. Talbot.....Newark, N. J.
Fisher, Maud A., private nurse.....Newark, N. J.
McGarry, Nellie, private nurse.....Brookline, Mass.
Amitage, Mabel A., private nurse.....Brookline, Mass.
Smith, Jessie, private nurse.....East Orange, N. J.
Wilson, Grace, private nurse.....New York City
Gardner, Martha J., married.....Paterson, N. J.
Burns, Alice E., private nurse.....Sea Cliffe, N. J.
Duffy, Gertrude G., private nurse.....Newark, N. J.
Tyers, Kate, private nurse.....Newark, N. J.
Garrabrant, Marion, now Mrs. W. H. Griffin,
Newark, N. J.
Niles, Ethelwyn, private nurse.....Newark, N. J.
Morice, Katherine, private nurse.....Newark, N. J.
Harwick, Sallie, now Mrs. Rohn.....Newark, N. J.
Lynch, Alice, married.....Newark, N. J.
Lipp, Kathryn, private nurse.....Newark, N. J.

LIST OF GRADUATES—*Continued*

Sargent, Nora, private nurse.....Newark, N. J.
Gregoire, Louise, private nurse.....Newark, N. J.
Mawer, Florence, private nurse.....Newark, N. J.
Bridgette, Anna, City Dispensary.....Newark, N. J.
Mulholland, Emily, private nurse.....New York City
Reilly, Anna, private nurse.....New York City
Tovell, Anna, private nurse.....Newark, N. J.
Decker, Susie, private nurse.....Newark, N. J.
Henderson, Mary, private nurse.....Newark, N. J.

1910

Donnelly, Elizabeth, private nurse.....Newark, N. J.
Galbraith, Jean, private nurse.....Newark, N. J.
Bicksler, Margaret, private nurse.....Newark, N. J.
Adams, Mertie, now Mrs. Lundgren.....Newark, N. J.
Honey, Sarah, now Mrs. Sheridan.....New York City
Smith, Margaret, married.....Belleville, N. J.
Braun, Eva, now Mrs. McKee.....Kearny, N. J.
Thompson, Janet, private nurse.....Newark, N. J.
Maxey, Anna, private nurse.....Newark, N. J.
McColl, Elizabeth, private nurse.....Newark, N. J.
Ranson, Lydia, private nurse.....Newark, N. J.
Leber, Jennie, private nurse.....Newark, N. J.
Barnes, Lillian, married.....Newark, N. J.
Gibbs, Florence, private nurse.....Newark, N. J.
Adam, Jennie N., private nurse.....Newark, N. J.
Lyons, Alice M., private nurse.....Newark, N. J.
McCormack, Josephine, private nurse.....Newark, N. J.

1911

Williams, Margaret, private nurse.....Newark, N. J.
Cunningham, Emily, private nurse.....Newark, N. J.
Werner, Nellie, private nurse.....Newark, N. J.

LIST OF GRADUATES—*Continued*

Kaulfuss, Ethel, private nurse.....Newark, N. J.
Corcoran, Maysie, private nurse.....Newark, N. J.
Dexter, Henrietta, private nurse.....Newark, N. J.
Wallace, Cassie, now Mrs. Duffin.....Bond Head, Ont.
Nagle, Mary, Operating Room, City Hospital,
Newark, N. J.
Moak, Frances, private nurse.....Newark, N. J.
Richardson, Agnes, private nurse.....Newark, N. J.
Eadie, Helen, private nurse.....Newark, N. J.
White, Frances, private nurse.....Elizabeth, N. J.
Johnson, Cora, private nurse.....Newark, N. J.
O'Neil, Agnes, private nurse.....Newark, N. J.
Pemberthy, Grace, private nurse.....Newark, N. J.
Beach, Florence, deceased.....
Farley, Annie, private nurse.....Newark, N. J.
King, Helen, private nurse.....Newark, N. J.
Righter, Alliene, private nurse.....Newark, N. J.
Allison, Florence, private nurse.....Newark, N. J.
Finnerty, Marjorie, private nurse.....Newark, N. J.
Lampe, Helen, private nurse.....Newark, N. J.
Bailey, Florence, General Hospital,
Presidio, San Francisco, Cal.

1912

Grant, Mary, private nurse.....Elizabeth, N. J.
Glacken, Sarah H., private nurse.....Elizabeth, N. J.
Carrick, Anna, now Mrs. Nagle.....Newark, N. J.
O'Malley, Nellie, private nurse.....Newark, N. J.
Schumann, Hazel A., private nurse.....Newark, N. J.
Brigham, Bertha B., private nurse.....Newark, N. J.
Lucas, Helen B., private nurse.....Newark, N. J.
Van Nuise, Sylvia, private nurse.....Newark, N. J.
Smith, Maud, private nurse.....Newark, N. J.
Smith, Edna G., private nurse.....Newark, N. J.

LIST OF GRADUATES—*Continued*

Gibson, Agnes G., private nurse.....Newark, N. J.
Larner, Charlotte M., private nurse.....Newark, N. J.
Learned, Nellie A., private nurse.....Manasquan, N. J.
Erickson, Emma, private nurse.....Newark, N. J.
Milligan, Carolyn, private nurse.....Newark, N. J.
Brokaw, Sarah, private nurse.....Newark, N. J.
Woolsey, Stella G., private nurse.....Newark, N. J.
Penberthy, Grace G., private nurse.....Newark, N. J.
Townsend, Ellen, private nurse.....Paterson, N. J.
Anderson, Antonio, private nurse.....Newark, N. J.
Buckle, Margaret, private nurse.....Morristown, N. J.
Wolfe, Lulu B., private nurse.....Newark, N. J.
Bauer, Loretta A., private nurse.....Irvington, N. J.
Tamlin, Alice, private nurse.....Buffalo, N. Y.
Jaeger, Jennie A., private nurse.....Newark, N. J.
Griffith, Edna, private nurse.....Newark, N. J.

1913

Kennedy, Esther M., private nurse.....Newark, N. J.
Straulina, Margaret B., private nurse.....Newark, N. J.
Eble, Martha D., private nurse.....Newark, N. J.
Lynch, Mary, private nurse.....Newark, N. J.
Ekberg, Elsa C., private nurse.....East Orange, N. J.
Kingston, Harriet E., private nurse.....Newark, N. J.
Heavy, Elizabeth V., public school nurse...Newark, N. J.
Kincaid, Grace E., private nurse.....Newark, N. J.
Farley, Jennie T., private nurse.....New York City
Leslie, Christine D., private nurse.....Newark, N. J.
LaRue, Sadie M., private nurse.....Newark, N. J.
Jones, Ora B., private nurse.....Newark, N. J.
Snyder, Bertha M., private nurse.....Newark, N. J.
Harper, Bertha M., private nurse.....Newark, N. J.
Payne, Esther, private nurse.....Newark, N. J.
Bergen, Theresa E., private nurse.....Newark, N. J.
McDonagh, Elizabeth, private nurse.....Newark, N. J.
McVay, Grace E., private nurse.....Newark, N. J.

Applicants are required to answer the following questions in their own handwriting, and to send this paper with personal letter, photograph and names of references, &c., to the Superintendent of Training School.

Questions to be Answered by Candidate

1. Name in full and present address. .....
2. Are you a single woman or widow? .....
3. If a widow, have you children? How many? Their ages? How are they provided for? .....
4. Age, with date and place of birth? .....
5. Height and weight? .....
6. Where and at what school did you receive your education? .....
7. Your present occupation or employment? .....
8. Where (if any) and what was your last situation? How long were you in it? .....
9. Name and address of last employer? .....
10. Have you ever served in any Hospital or Training School? .....
11. Are you perfectly strong and healthy? Have you always been so? .....
12. Are your sight and hearing perfect? .....
13. Have you any physical defects? .....
14. Have you any tendency to pulmonary complaint? .....
15. Have you any uterine complaint? .....
16. Have you any tendency to sore throat? .....
17. Have you had scarlet fever? .....
18. Do you promise at all times to obey implicitly the orders of your superior officers? .....
19. Have you read and do you clearly understand the Circular of Information? .....

I declare the above statement to be correct.

Date..... L L

Signed.....

MEDICAL AND SURGICAL DIVISION

CASES	Disc.	Died	Total
ABNORMITIES & MALFORMATIONS—			
Congenital—			
Congenital malformation of face	3	....	3
Congenital malformation of reproductive organs	1	....	1
Congenital malformation of urinary organs	1	....	1
Blood—			
Anaemia, pernicious	4	1	5
Anaemia, simple	2	2	4
Leuchaemia	....	1	1
Bones and Cartilages—			
Necrosis of joint	7	....	7
Osteitis of humerus	2	....	2
Osteomyelitis	8	....	8
Periostitis, chronic	1	1	2
Bursae—			
Bursitis	3	....	3
Circulatory System—			
Aneurysm of	1	....	1
Arterial sclerosis, general	10	4	14
Phlebitis	4	....	4
Varix of veins	4	1	5
Congenital malformation of heart	3	1	4
Endocarditis, acute	46	18	66
Endocarditis, chronic	18	5	23
Valvular diseases, acute and chronic	10	5	15
Dilatation, acute cardiac	11	7	18
Myocarditis, chronic	35	23	58
Angina pectoris	2	....	2
Cardiac neurosis	2	....	2
Digestive System—			
Appendicitis, acute	118	7	125
Appendicitis, chronic	40	1	41
Autointoxication	7	1	8
Colitis, acute	6	2	8
Constipation	35	....	35

MEDICAL AND SURGICAL DIVISION—*Continued*

CASES	Disc.	Died	Total
Enteritis	7	....	7
Gastro enteritis	39	6	45
Regurgitation of stomach	2	1	3
Faecal fistula	1	....	1
Obstruction, intestinal	6	8	14
Thrombosis of mesenteric artery	3	....	3
Ulcer of Duodenum	7	....	7
Cirrhosis of liver, atrophic	7	4	11
Cirrhosis of liver, hypertrophic	2	2	4
Cholangitis	2	....	2
Cholecystitis, acute	12	....	12
Cholelithiasis	11	2	13
Hydrops of gall bladder	....	1	1
Adhesions of peritoneum	4	....	4
Peritonitis, acute general	2	7	9
Peritonitis, chronic general	4	2	6
Stomatitis	1	....	1
Pharyngitis, ulcerative	2	....	2
Aveolar abscess	3	....	3
Amygdalitis, acute follicular	20	....	20
Amygdalitis, chronic follicular	11	....	11
Hypertrophied tonsils and adenoids	84	....	84
Pancreatitis, acute	1	....	1
Abscess about rectum	18	....	18
Fistula in ano	10	....	10
Abscess, tonsilar	2	....	2
Pelvic Abscess	2	....	2
Stricture of rectum	2	....	2
Dilatation of stomach	2	1	3
Gastritis, acute	30	2	32
Gastritis, chronic	15	....	15
Ulcer of stomach	10	....	10
Hemorrhage from stomach	1	1	2
Ductless Glands and Spleen—			
Exopthalmic goitre	3	....	3
Myxoedema	....	2	2
Eye and Ear—			
Mastoiditis, acute	5	....	5
Mastoiditis, chronic	1	....	1
Otitis, acute	3	1	4

MEDICAL AND SURGICAL DIVISION—*Continued*

CASES	Disc.	Died	Total
Otitis, acute media	1	....	1
Conjunctivitis, acute	7	....	7
Conjunctivitis, chronic	2	....	2
Iritis	4	....	4
Cyclitis	3	....	3
Keratitis	2	....	2
Panophthalmitis	2	....	2
Ulcer of Eye	2	....	2
Hernia—			
Femoral hernia	2	....	2
Femoral hernia, strangulated	2	1	3
Inguinal hernia	72	3	74
Inguinal hernia, strangulated	5	2	7
Umbilical hernia	2	....	2
Ventral hernia	4	1	5
INFECTIVE DISEASES—			
Abscess of	29	....	29
Abscess antrum highmore	2	....	2
Abscess of appendicular	4	....	4
Abscess of buttock	2	....	2
Abscess of inguinal region	2	....	2
Abscess of lymph glands	5	....	5
Abscess of lumbar region	2	....	2
Abscess of pretibial	1	....	1
Abscess of thigh	5	....	5
Carbuncle of neck	3	....	3
Cellulitis	38	....	38
Chancroids	4	....	4
Diphtheria	22	1	23
German measles	7	....	7
Furunculosis	2	....	2
Gonococcus infection of eye	4	....	4
Gonococcus infection of joints	14	....	14
Gonococcus infection of vagina	13	....	13
Gonococcus infection of urethra	3	....	3
Influenza	28	....	28
Jaundice, catarrhal	1	....	1
Malaria	6	....	6
Measles	4	....	4
Rabies	1	2	3

MEDICAL AND SURGICAL DIVISION—*Continued*

CASES	Disc.	Died	Total
Rheumatic fever, acute	3	....	3
Septicaemia	12	7	19
Septicaemia puerperium	10	19	29
Syphilis	39	2	41
Tuberculosis of bone	21	....	21
Tuberculosis of bursae	3	....	3
Tuberculosis of fistula	....	1	1
Tuberculosis of joints	4	....	4
Tuberculosis of kidney	4	....	4
Tuberculosis of larynx	1	....	1
Tuberculosis of lymph glands	8	....	8
Tuberculosis of men ngitis	5	2	7
Tuberculosis of peritoneum	3	2	5
Tuberculosis, broncho pneumonia	1	1	2
Tuberculosis, influenza	1	....	1
Tuberculosis, chronic pulmonary	130	91	221
Tuberculosis of epididymis	1	....	1
Tuberculosis of testicle	1	1	2
Tuberculosis of prostate	1	....	1
Tuberculosis of plura	1	....	1
Typhoid fever	24	8	32
Pertussis	14	1	15
Joints—			
Ankylosis of shoulder	1	....	1
Arthritis, acute	12	....	12
Arthritis, chronic	8	....	8
Arthritis, chronic deformans	5	1	6
Pes planus	3	....	3
Lymphatic System—			
Abscess of lymph glands	2	....	2
Hodgkin's disease	....	1	1
Lymphadenitis, acute	25	....	25
Lymphadenitis, chronic	8	....	8
DISEASES OF THE MIND—			
Dementia praecox	5	....	5
Dementia, senile	....	1	1
General paralysis of the insane	2	....	2
Imbecility	2	....	2
Melancholia	2	....	2

MEDICAL AND SURGICAL DIVISION—*Continued*

CASES	Disc.	Died	Total
Paranoia, alcoholic	2	....	2
Psychosis, intoxication	3	....	3
Mania, acute depressive	36	....	36
Observation	14	....	14
Psychopathic	90	....	90
MISCELLANEOUS DISEASES AND CONDITIONS—			
Diabetes mellitus	1	4	5
Feeding cases	42	....	42
Gangrene of lung	....	1	1
Gangrene of finger	3	....	3
Infancy	1	....	1
Malingering	1	....	1
Malnutrition	4	9	13
Raynard's disease	1	....	1
Rheumatism, acute articular	63	....	63
Rickets	....	2	2
Sinus of forearm	3	....	3
Sinus of tibia	2	....	2
Sinus of stomach	2	....	2
Starvation	1	1	2
Muscles—			
Contracture of muscles	3	1	4
Myalgia	1	....	1
Myositis, acute	2	....	2
The Nervous System—			
Anaemia of brain	....	1	1
Apoplexy	....	1	1
Encephalitis, acute	1	1	2
Hemorrhage, acute cerebral	13	13	26
Hemorrhage from spinal chord	2	....	2
Embolism, cerebral	2	2	4
Hemplegia	7	....	7
Meningitis, cerebral	1	2	3
Meningitis, cerebro-spinal	2	2	4
Hydrocephalus	3	....	3
Myelitis	2	....	2
Pachymeningitis, spinal	....	1	1
Paralysis, infantile spastic	1	1	2

MEDICAL AND SURGICAL DIVISION—*Continued*

CASES	Disc.	Died	Total
Paraplegia	2	....	2
Poliomyelitis, acute and chronic	3	3	6
Sclerosis, lateral	2	....	2
Tabes dorsalis	11	....	11
Thrombosis of	....	1	1
Neuralgia	8	....	8
Sciatica	4	....	4
Neuritis, multiple	4	....	4
Aphasia	2	1	3
Chorea	3	....	3
Epilepsy	20	2	22
Hiccough	1	....	1
Hysteria	23	....	23
Neurasthenia	15	....	15
Nervous breakdown	1	....	1
Paralysis, agitans	4	....	4
POISONINGS AND INTOXICATIONS—			
Alcoholic poisoning	216	58	274
Wood alcoholic poisoning	....	1	1
Acetanilide poisoning	2	....	2
Arsenic poisoning	1	....	1
Carbolic acid poisoning	3	....	3
Bichloride of mercury poisoning	5	1	6
Carbon monoxide poisoning	3	....	3
Cocaine poisoning	2	....	2
Chloroform poisoning	2	....	2
Creosote poisoning	1	....	1
Cyanide of potassium poisoning	1	....	1
Illuminating gas poisoning	13	3	16
Iodine poisoning	2	....	2
Lead poisoning	8	....	8
Marsh gas poisoning	6	....	6
Naptha chloral poisoning	1	....	1
Morphine poisoning	4	....	4
Pellagra poisoning	1	....	1
Ptomaine poisoning	2	....	2
Paris green poisoning	2	....	2
Sulphuric acid poisoning	1	....	1
Laudanum poisoning	2	....	2

MEDICAL AND SURGICAL DIVISION—*Continued*

CASES	Disc.	Died	Total
REPRODUCTIVE ORGANS—			
Dysmenorrhagia	1	....	1
Menorrhagia	1	....	1
Menopause	1	....	1
Metrorrhagia	2	....	2
Abscess of mammary gland	4	....	4
Mastitis, acute	2	....	2
Abscess of ovary	3	....	3
Cellulitis, pelvic	5	....	5
Gestation, extrauterine	10	....	10
Oophoritis, acute	2	....	2
Oophoritis, chronic	1	....	1
Salp ngo oophoritis	1	....	1
Salpingitis, acute	33	....	33
Salpingitis, chronic	22	....	22
Atrophy of uterus	2	....	2
Infantile of uterus	1	....	1
Anteflexion of uterus	8	....	8
Prolapse of uterus	8	....	8
Retrocession of uterus	2	....	2
Retroversion of uterus	13	....	13
Endometritis, acute	2	...	2
Endometritis, chronic	15	....	15
Metritis, chronic	1	....	1
Fistula, vaginal	2	....	2
Laceration of pelvic floor	5	....	5
Cystocele	6	....	6
Vaginitis, acute	16	....	16
Abscess of bartholins glands	2	....	2
Abscess of prostate	2	....	2
Abscess of vulvo	2	....	2
Paraphimosis	9	....	9
Redudant prefuce	28	....	28
Enlargement of prostate	5	....	5
Prostatitis, acute and chronic	5	....	5
Varicocele	7	....	7
Epididymitis, acute	9	....	9
Orchitis, acute	7	....	7
Orchitis, chronic	8	....	8
Hydrocele	8	....	8

MEDICAL AND SURGICAL DIVISION—*Continued*

CASES	Disc.	Died	Total
RESPIRATORY SYSTEM—			
Asthma	10	4	14
Bronchitis, acute	22	1	23
Bronchitis, chronic	47	1	48
Atelectasis	....	1	1
Edema of lung	2	14	16
Pneumonia, broncho	21	10	31
Pneumonia, Lobar	69	30	99
Pneumonia, hypostatic	....	1	1
Pneumonia, influenza	1	....	1
Stenosis of larynx	2	1	3
Epistaxis	5	....	5
Pleurisy, acute fibrinous	17	....	17
Pleurisy, chronic fibrinous	18	....	18
Pleurisy, chronic suppurative	25	1	26
SKIN, HAIR AND NAILS—			
Acne	1	....	1
Dermatitis	3	....	3
Dermatitis venenata	2	....	2
Eczema	14	....	14
Erythema	3	....	3
Herpes	2	....	2
Impetigo contagiosa	2	....	2
Lupus vulgaris	2	1	3
Mysosis fungoides	2	....	2
Neavus of tongue	2	....	2
Pediculosis caporis	2	....	2
Scabies	9	....	9
Pemphigus	4	....	4
Psoriasis	4	....	4
Urticaria	3	....	3
Pruritis	3	....	3
Ulcer of leg	21	....	21
Warts	2	....	2
TUMORS—			
Benign Tumors—			
Fibroma	10	....	10
Glioma of brain	6	1	7
Granuloma	3	1	4

MEDICAL AND SURGICAL DIVISION—*Continued*

CASES	Disc.	Died	Total
Lipoma	2	1	3
Papilloma	1	....	1
Retention cyst	15	1	16
Tumors unknown	2	2	4
Gumma of arm	1	....	1
Gumma of tibia	2	....	2
Malignant Tumors—			
Carcinoma of stomach	29	16	45
Epithelioma of tongue	6	1	7
Epithelioma of leg	1	....	1
Epithelioma of lip	....	1	1
Sarcoma of stomach	10	1	11
Sarcoma of arm	2	....	2
Mixed malignant	2	....	2
URINARY ORGANS—			
Antony of bladder	1	....	1
Cystitis, acute and chronic	9	1	10
Retention of urine	5	....	5
Abscess, perinephritic	2	....	2
Hematuria renal	1	....	1
Nephritis, acute diffuse	20	9	29
Nephritis, chronic interstitial	40	22	62
Nephritis, chronic parenchymatous	11	11	22
Nephroptosis	3	....	3
Pyelitis	3	1	4
Pyelonephosis	2	1	3
Pyelonephritis	2	....	2
Uraemia, acute	4	1	5
Calculus, in ureter	2	....	2
Stricture in urethra	6	....	6
Fistula in urethra	1	....	1
Ureteral colic	2	....	2
Urethritis	10	1	11
OBSTETRICIAL CONDITIONS, DISEASES AND INJURIES—			
Abortion, incomplete	116	....	116
Abortion, threatened	29	....	29
Accidenal hemorrhage, puerperium	2	1	3
Deformed pelvis, pregnancy	1	....	1

MEDICAL AND SURGICAL DIVISION—*Continued*

CASES	Disc.	Died	Total
Embolism of puerperium	....	1	1
Miscarriage	7	....	7
Parturition	406	....	406
Placenta, praevia pregnancy	2	....	2
Placenta, praevia parturition	4	1	5
Pregnancy vomiting	3	....	3
Puerperium, retained placenta	2	....	2
Toxaemia of pregnancy (to include)—			
Eclampsia, parturition	2	5	7
Eclampsia, pregnancy	7	5	12
Eclampsia, puerperium	10	3	13
New born child	372	1	373
Prematurity	....	35	35
INJURIES—			
Organs and Special Structures—			
Bones—			
Epiphyseal separation of knee	2	....	2
Fracture about ankle	15	....	15
Fracture of clavicle	13	....	13
Fracture of bones of face	11	....	11
Fracture of femur	31	3	34
Fracture of foot	13	....	13
Fracture of forearm	34	1	35
Fracture of hand	2	....	2
Fracture of humerus	21	....	21
Fracture of leg	58	....	58
Fracture of maxilla inferior	3	....	3
Fracture of patella	8	....	8
Fracture of pelvis	9	....	9
Fracture of rib	15	3	18
Fracture of base of skull	28	33	61
Fracture of sternum	2	....	2
Fracture of vertebra	1	4	5
Fracture of wrist joint	9	....	9
Fracture of arm, compound	1	....	1
Fracture of bones of face, compound	2	....	2
Fracture of femur, compound	1	....	1
Fracture of leg, compound	8	....	8
Fracture of hip, compound	2	....	2
Fracture of humerus, compound	1	....	1

MEDICAL AND SURGICAL DIVISION—*Continued*

CASES	Disc.	Died	Total
Circulatory System—			
Rupture of mesenteric vein	....	4	4
Rupture of spermatic artery	....	4	4
Digestive System—			
Rupture of intestines	....	4	4
Rupture of liver	1	3	4
Joints—			
Dislocation of joint	18	1	19
Rupture of ligament	3	....	3
Sprain of joint	20	....	20
Synovitis, traumatic	9	....	9
Nervous System—			
Intra cranial injury	15	1	16
Reproductive Organs—			
Rupture of uterus	3	....	3
Urinary Organs—			
Rupture of kidney	4	....	4
Rupture of urethra	1	....	1
REGIONS—			
Abrasions	10	....	10
Avulsions of	3	....	3
Burns of body	27	13	40
Contusion, multiple	51	....	51
Concussion of brain	15	....	15
Crush of body	5	....	5
Foreign body	7	....	7
Haematoma of head	1	....	1
Wounds—			
Gunshot	13	6	19
Incised	4	....	4
Infected	26	....	26
Lacerated	103	3	106
Punctured	2	2	4
Stab	14	....	14
Miscellaneous Injuries—			
Drowning	1	3	4
Heat exhaustion	3	....	3
Suffocation	1	3	4
Exposure	1	....	1

SURGICAL OPERATIONS

CASES	Cured	Improved	Unimproved	Died	Total
AMPUTATION OF—					
Arm for Injury	1	....	....	....	1
Finger for injury	2	....	....	....	2
Finger for infection	2	....	....	....	2
Forearm for Tuberculous osteomyelitis	1	....	....	....	1
Hand for injury	2	....	....	....	2
Hip for sarcoma	....	1	....	....	1
Leg for compound fracture	1	....	....	....	1
Leg for sarcoma	....	1	....	....	1
Toe for infection	2	....	....	....	2
Toe for gangrene	1	....	....	....	1
EXCISION OF—					
Axillary glands for carcinoma	....	1	....	....	1
Axillary glands for tuberculosis	2	....	....	....	2
Branchial cyst	2	....	....	....	2
Breast for carcinoma	....	2	....	....	2
Breast for malignant cyst	....	1	....	....	1
Cervical glands for tuberculosis	5	....	....	....	5
Cervical glands for lymo-sarcoma	....	1	....	....	1
Lip for epithelioma	1	....	....	....	1
Hemorrhoids—					
Clamp and Cantery	1	....	....	....	1
Ligature	5	....	....	....	5
Whitehead	2	....	....	....	2
Carbuncle of neck	1	....	....	....	1
Inguinal Glands	6	1	....	....	7
Carcinoma of floor of mouth	....	....	....	1	1
Cheek for noma	....	....	....	1	1
Testicle for tuberculosis	2	....	....	....	2
Varicose ulcer of leg	2	....	....	....	2
Varicocella	11	....	....	....	11
Sarcro-coccygeat dermoid	1	....	....	....	1

SURGICAL OPERATIONS—*Continued*

CASES	Cured	Improved	Unimproved	Died	Total
ABSCESS (INCISION AND DRAINAGE OF)—					
Antrum of highmore	1	....	....	....	1
Alveolar	3	....	....	....	3
Arm	1	....	....	....	1
Breast	9	....	....	....	9
Chest wall	1	....	....	....	1
Elbow	1	....	....	....	1
Finger	3	....	....	....	3
Foot	1	....	....	....	1
Grain	8	....	....	....	8
Neck	6	....	....	....	6
Prostate	1	....	....	....	1
Thigh	1	....	....	....	1
Scrotum	1	....	....	....	1
Peritonsillar	1	....	....	....	1
Perineal	1	....	....	....	1
Ischiorectal	7	2	....	....	9
Retropharyngeal	1	....	....	....	1
Periurethral	....	2	....	....	2
Vulvavaginal	7	....	....	....	7
CELLULITIS OF—					
Arm	8	....	....	....	8
Neck	3	....	....	....	3
Thigh	1	....	....	....	1
Leg	5	....	....	....	5
Foot	1	....	....	....	1
Fingers	2	....	....	....	2
Thumb	1	....	....	....	1
Hand	4	....	....	....	4
APPENDECTOMY FOR—					
Acute catarrhal appendicitis	59	....	....	....	59
Chronic catarrhal appendicitis	16	....	....	....	16
Gangrenous appendicitis	3	....	....	....	3
Acute suppurative appendicitis	61	1	....	1	63

SURGICAL OPERATIONS—*Continued*

CASES	Cured	Improved	Unimproved	Died	Total
Acute suppurative appendicitis, with general peritonitis	1	1	....	8	10
Acute suppurative appendicitis, with abscess and cerebral oedema	....	....	....	2	2
Appendectomy and colopey	1	....	....	....	1
Arthroplasty for septic arthritis of hip	1	....	....	....	1
CAESARIAN SECTION FOR—					
Atresios of cervix	....	....	....	1	1
Eclampsia	5	....	....	1	6
Contracted pelvis	2	....	....	1	3
Gastric ulcer (ruptured)	1	....	....	....	1
Hydatidiform mole	1	....	....	....	1
Endometritis	7	....	....	....	7
Incomplete abortion	70	....	....	....	70
CURRETTING OF—					
Femur (for bone necrosis)	....	1	....	....	1
Fibia (for bone necrosis)	3	....	....	....	3
DECOMPRESSION FOR—					
Pituitary tumor	....	1	....	....	1
Brain tumor	8	1	....	1	10
Brain cyst	1	....	....	....	1
Fractured skull	2	2	....	....	4
Frontal sinusitis	2	....	....	....	2
Dorsal slit for chancroidal phimosis	19	....	....	....	19
DELIVERY BY FORCEPS FOR—					
Eclampsia	....	....	....	1	1
Placenta pravia	....	....	....	1	1
Protracted labor	3	....	....	....	3
Endoanewismorarrhaphy for papliteal aneurism	1	....	....	....	1

SURGICAL OPERATIONS—*Continued*

CASES	Cured	Improved	Unimproved	Died	Total
EPIDIDYMOTOMY FOR—					
Acute epididymitis	5	....	....	....	5
Gastrectomy (partial) for ulcer	....	....	....	1	1
GASTROENTEROSTOMY FOR—					
Carcinoma	....	....	....	1	1
Gastric ulcer	....	1	....	....	1
HYSTERECTOMY (Abdominal Route)					
HERNIA REPAIR—					
Femoral	2	1	....	....	3
Femoral, strangulated	2	....	....	1	3
Inguinal	54	....	....	....	54
Inguinal, double	8	....	....	....	8
Inguinal, strangulated	2	....	....	1	3
Inguinal, strangulated, with perforated gut and general peritonitis	....	....	....	1	1
Umbilical, strangulated	2	....	....	1	3
Ventral	6	....	....	....	6
Ventral, strangulated	1	....	....	2	3
Inguinal, incarcerated	1	....	....	....	1
Hydrocele—radical cure of cord	....	....	....	....	....
HYSTERECTOMY (Abdominal Route) FOR—					
Carcinoma	1	1	....	....	2
Fibroids	7	....	1	....	8
Fibroids and appendectomy	1	....	....	....	1
Prolapse	1	....	....	....	1
PERFORATED UTERUS (Vaginal Route) FOR—					
Prolapse	1	....	....	....	1
Carcinoma	....	1	....	....	1
Laminectomy for fracture	....	....	....	2	2
Laporotomy for adhesions	8	....	....	....	8

SURGICAL OPERATIONS—*Continued*

CASES	Cured	Improved	Unimproved	Died	Total
CHOLECYSTOSTOMY FOR—					
Cholelysitis	5	....	....	....	4
Cholelythiasis	15	1	....	1	17
Cholecystectomy	2	....	....	....	2
EXPLORATORY LAPOROTOMY FOR—					
Bullet wounds	1	1	....	2	4
Carcinoma of liver	1	....	1	....	2
Intestinal obstruction due to—					
Enterolith	1	....	....	1	2
Adhesions	2	....	....	....	2
Intersusception	1	....	....	....	1
Stab wounds	6	....	....	....	6
Thrombosis of mesenteric artery	1	....	....	1	3
Tuberculous peritonitis	2	....	....	....	2
Exploratory laporotomy and resection of bowel for volvulous	....	1	....	....	1
Legation of common carotid artery for Aneurism	....	1	....	....	1
Mastoiditis radicle—operation for	5	....	....	....	5
Myomectomy for uterine fibroids	1	....	....	....	1
NEPHRECTOMY FOR—					
Cystic kidney	....	....	....	1	1
Pyonephrosis	1	....	....	....	1
Tuberculous kidney	2	....	....	....	2
Sarcoma of kidney	1	....	....	....	1
Nephropexy and Appendectomy	1	....	....	....	1
Nephrostomy for—					
Nephrolithiasis	2	....	....	....	2
Hemorrhage	1	....	....	....	1
Oophorectomy and salpingectomy	9	....	....	....	9
Oophorectomy and ventral suspension	1	....	....	....	1
Oophorectomy, salpingectomy and appendectomy	1	....	....	....	1

SURGICAL OPERATIONS—*Continued*

CASES	Cured	Improved	Unimproved	Died	Total
Oophorectomy, appendectomy and ventral suspension	1	....	....	....	1
Oophorectomy and excision of cyst of broad ligament	1	....	....	....	1
Perineorhaphy and colporrhaphy	7	....	....	....	7
Pericorrhaphy	3	....	....	....	3
Pericorrhaphy and curettage	1	....	....	....	1
Pericorrhaphy, colporrhaphy, salpingoophorectomy and appendectomy	2	....	....	....	2
Perineohhhaphy, trachelorrhaphy and ven- and ventral suspension	1	....	....	....	1
Preincorrhaphy, trachelorrhaphy and ventral suspension	1	....	....	....	1
Prostatectomy for hypertrophy (suprapubic)	1	....	....	2	3
Pylorectomy for ruptured gastric ulcer	....	....	....	1	1
Removal of—					
Bullet from leg	1	....	....	....	1
Bullet from shoulder	1	....	....	....	1
Bullet from forearm	1	....	....	....	1
Bullet from knee joint	1	....	....	....	1
Bullet from back	1	....	....	....	1
Needle from hand	1	....	....	....	1
Needle from finger	1	....	....	....	1
Lane plate from femur	1	....	....	....	1
Needle from foot	1	....	....	....	1
Repair of—					
Peforated gastric ulcer	1	....	....	....	1
Anal fistula	3	2	....	....	5
Fecal fistula	1	1	....	....	2
Lacerated axilla	1	....	....	....	1
Traumatic amputation of toes	2	....	....	....	2
Traumatic amputation of fingers	1	....	....	....	1
Traumatic amputation at ankle	1	....	....	....	1
Recent fractured patella (wiring)	6	....	....	....	6
Compound fracture of frontal bone	1	....	....	....	1
Fracture of—					
Oscalcis (wiring)	1	....	....	....	1
Tibia and fibula (wiring)	1	....	....	....	1
Tibia (lane plate)	1	....	....	....	1

SURGICAL OPERATIONS—*Continued*

CASES	Cured	Improved	Unimproved	Died	Total
RESECTION OF—					
Rectum for prolapse	1	....	....	....	1
Knee	1	....	....	....	1
Rib for empyema	6	4	....	....	10
Salpinjectomy and oophorectom for tursted pedicle	2	....	....	....	2
Salpinectomy for—					
Ectopic gestation (ruptured)	8	....	....	....	8
Ectopic gestation (unruptured)	2	....	....	....	2
Salpingitis (single)	9	....	....	....	9
Salpingitis (double)	1	....	....	....	1
Salpingectomy, appendectomy and ventral suspension	1	....	....	....	1
Salpingectomy and appendectomy	5	....	....	....	5
Ventral suspension of uterus and appendectomy	6	....	....	....	6
Tonsillectomy and adenectomy	64	....	....	....	64
THYROID OPERATIONS—					
Thyroidectomy (partial)	1	1	....	....	2
Enneleation of cyst of thyroid	1	1	....	....	2
Ligation of inferior thyroid	2	....	....	....	2
Excision of accessory thyroid and cyst of thyroid	1	....	....	....	1
Urethrotomy—external and internal for stricture	6	....	....	....	6
Version for placenta praevia	1	....	....	....	1
MISCELLANEOUS—					
Pelvic puncture	6	....	....	....	6
Insertion of Steinman pin for fracture of both bones of leg	4	....	....	....	4
Urethral calculous removed, with operative cystoscope	1	....	....	....	1
Manual extraction of retained placenta	1	....	....	....	1
Intubation (laryngeal diphtheria)	1	....	....	....	1
Spinal graft for Pott's disease	1	....	....	....	1
Excision of scar tissue for neutitis	1	....	....	....	1
Repair of malposition of both bones of forearm (removal of crossed union)	....	1	....	....	1

PHARMACY CASES—1912

Abrasion of abdomen	1
" " ankle	1
" " arm	6
" " back	2
" " chin	1
" " conjunctiva	1
" " eyelid	1
" " eye	3
" " elbow	3
" " face	18
" " finger	8
" " forearm	2
" " forehead	9
" " hand	10
" " hip	1
" " knee	8
" " leg	8
" " nose	3
" " neck	2
" " palm	2
" " scalp	7
" " skin	2
" " shoulders	3
" " thigh	1
" " thumb	1
" " wrist	2
" " general	1

Abscess alveolar	2
" auxillary	4
" cervical	1
" palmer	2
" multiple peritonsillac	1
" mammary	1
" of arm	1
" " abdominal wall	1
" " back	1
" " cheek	1
" " chest	1
" " digital	3
" " ear	2
" " forearm	3
" " finger	2
" " forehead	1
" " gum	1
" " hand	2
" " hip	1
" " jaw	1
" " neck (superficial)	1
" " rectal	1
" " thigh	2
" " tooth	1
" " wrist	1
Acme	1
Adenitis	4
" axillary	6
" clavical	4
" inkuinal	12
" tuberculosis	1
Adhesions, post operative	1
Adherent foreskin	1
Adenoids	1
Alcoholism	207
Amu	6

Amputation of finger	6
" " lip	2
" " thumb	2
" " phalamax	1
Angenoid attack	2
Anklosis of elbow	1
Anchylosis of knee	1
Antelflexion of uterus	1
Antitenac serum	1
Appendicitis	4
Appendicular colic	2
Arthritis of knee	1
Asthma	6
Bandage on arm	1
Bite	1
Bite of hand	1
" " forearm	1
Bleb on finger	2
" " foot	1
" " chin	1
Bleeding of gums	1
Blister on foot	1
" on heel	1
Boils	1
Boils on arm	5
" " hand	3
" " face	1
" " leg	1
" " lip	1
" " neck	3
Bone in throat	4
Broken arch	3
" nose	2
" ribs	1
" wrist	1
Bronchitis	22

Bronchial Asthma	1
Bruise of ankle	2
" " arm	7
" " body	1
" " cheek	1
" " elbow	4
" " face	3
" " finger	3
" " general	11
" " forehead	6
" " hand	3
" " hip	1
" " jaw	2
" " knee	2
" " leg	5
" " shoulder	7
" " side	3
" " thigh	3
" " toe	3
Bubo	7
Bubonocele	1
Bullet wound of arm	1
" " in occipetal region	2
Bunion	1
Burns	14
Burns of arm	12
" " abdomen	1
" " back	1
" " buttocks	2
" " ear	1
" " elbow	1
" " eye	1
" " face	5
" " finger	2
" " forearm	11
" " hand	24

Burns of leg (caustic potash)	1
" " leg	1
" " shoulder	1
" " thigh	1
" " wrist	3
" from lye	1
Button in nose	1
Carbuncle	2
" of neck	3
Carcinoma of breast	1
" " neck	1
Catherezation	1
Cat bite	22
Cat scratch	2
Cardiac insufficiency	1
Caseation of cervical gland	1
Cellulitis	1
" of finger	7
" " hand	1
" " heel	1
" " lip	1
Cerebral anemia	2
Cerumun in ear	1
Chancre	1
Chancroids	3
Chicken pox	1
Cholecystitis	1
Colles fracture	12
Concussion of brain	6
Concussion, mild	1
Condyloma of anus	1
Conjunctivitis	9
Constipation	10
Contusions of Ankle	7
" " Axillar	1
" " Arm	9

Contusions of	Abdomen	1
"	" Back	1
"	" Bone	1
"	" Body	3
"	" Chest	11
"	" Cheek	2
"	" Chin	1
"	" Ear	2
"	" Elbow	10
"	" Eye	5
"	" Eyelid	1
"	" Extremities	3
"	" Face	8
"	" Finger	13
"	" Foot	13
"	" Forearm	6
"	" Forehead	1
"	" Frontal Region	2
"	" Hand	6
"	" Hip	8
"	" Iliac Region	1
"	" Jaw	1
"	" Knee	6
"	" Leg	11
"	" Lip	2
"	" Mammary Region	1
"	" Nose	7
"	" Olecranon	1
"	" Ribs	5
"	" Scalp	11
"	" Over Sacrum	1
"	" Shoulder	8
"	" Side	6
"	" Thigh	8
"	" Thumb	2
"	" Toe	5

Contusions of Ulna	1
Convulsions	1
Corns	1
Crushed Finger	12
" Toe	1
Cut on Chin	1
" " Eyelid	1
" " Finger	3
" " Hand	2
" " Lip	1
" " Nose	1
" " Thumb	2
" " Wrist	2
Cystocele	1
Cyst of Dorsal	1
" " Cervical	1
" " Neck	3
" " Scalp	2
" Removal	2
" Sebaceous of Neck	1
" of Tendon Sheath	1
Dermatitis	27
" Occupational	1
Dermatological	2
Diphtheria	3
Dislocation of Arm	2
" " Clavical	1
" " Bone	1
" " Elbow	8
" " Humerus	2
" " Jaw	1
" " Metacarpal	2
" " Phalanx	2
" " Radius	2
" " Shoulder	15
" " Thumb	1

Dislocation of Ulna	5
Dog Bites	298
" " of Leg	14
Dope	1
Eczema	10
" of Face	1
" " Leg	1
" " Toes	1
" " Rubrum	1
Edema of Eyelid	1
Electric Shock	1
Elongated Freunum of Tongue	1
" Uviela	1
Endocarditis	3
Endometritis	2
Enlarged Glands	1
" Tonsils	2
" Testicle	1
Enteritis	2
Epididymitis Tubercular	3
Epilepsy	53
" Jacksonian	1
Epistaxes	8
Epithelioma	1
" Floor of Mouth	2
Epules	1
Erysipelas	1
" Facial	1
Erythemia	1
Examination	83
Excoriated Umbrliais	1
Excoriated Thigh	1
Exhaustion	2
Extraction of Ear Jewel	1
" " Tooth	2
Fallen Arches	2

Felon	2
Finger Nail Torn Off	1
Fibroids of Uterus	1
Fish Hook in Finger	1
" Bone in Tonsil	1
Fistula in Ano	5
" of Chin	1
Fibromuoma of Lip	1
Flat Foot	2
Floating Kidney	1
Foreign Body in Cheek	2
" " " Ear	2
" " " Foot	4
" " " Forearm	2
" " " Eye	20
" " " Finger	8
" " " Hand	7
" " " Pharynx	1
" " " Sclera	1
" " " Throat	1
" " " Swallowed	1
Fracture of Arm	1
" " Astroguhes	2
" " Ankle	1
" " Acromion	1
" " Cunieform	1
" " Clavicle	15
" " Colles	1
" " Elbow	3
" " Femur	2
" " Fibula	1
" " Foot	1
" " Finger	3
" " Forearm	10
" " Great Toe	2
" " Humerus	7

Fracture of Leg	2
" " Maxilla	3
" " Metacarpal	11
" " Metatarsal	4
" " Nose	5
" " Patella	1
" " Phelanx	1
" " Radius	15
" " " (Greenstick)	2
" " Ribs	17
" " Styloid	1
" in Tarsus	2
" of Tibia	2
" " Thumb	2
" " Ulna	12
" " Wrist	3
Furunculosis	7
Furuncle	12
" on Forearm	1
" " Arm	4
" " Cheek	1
" " Face	3
" " Forehead	1
" " Hand	5
" " Knee	1
" " Lip	1
" " Neck	6
" " Wrist	1
Gastritis	11
" Alcoholic	2
Ganglion on Hand	1
Gangrene of Finger	2
Gastro Enteritis	2
Gonorrhoea	1
" Stomatitis	1
" Urethritis	1

Gout	2
Gum Boil	2
Gun Shot Wound of Scalp	1
" " " " Thigh	1
Gynecological	6
Hæmatoma on Left Hand	1
" over Mastoid	1
" of Scalp	1
" " Cheek	3
Hæmorrhage	5
Hallux Valgus	1
Headache	2
Heat-Exhaustion	4
Hemotoma	1
" of Eye	2
Hemeplegra	1
Hemorrhage of Thumb	1
Hepatic Cirrhosis	1
Hernia	2
" Inguinal	10
" Umbilical	2
" Venereal	1
Herpes Zoster	3
Horse Bite	2
Hydrocele	1
Hysteria	21
Impetigo Contagiosa	5
Inanition	1
Incised Wounds	1
" " of Arm	7
" " " over Left Clavicle	1
" " " Cheek	1
" " " Dorsum of Hand	1
" " " Ear	3
" " " Elbow	2
" " " Face	5

Incised Wounds of Finger	30
" " " Foot	9
" " " Forehead	8
" " " Forearm	6
" " " Hand	13
" " " Head	1
" " " Lip	7
" " " Neck	1
" " " Leg	3
" " " Parietal Region	2
" " " Scalp	6
" " " Supra Orbital	1
" " " Thigh	2
" " " Thumb	4
" " " Thorax	1
" " " Tongue	1
" " " Wrist	3
Indigestion	4
Infection of Arm	8
" " Breast	1
" " Bursitis	1
" " Ear	2
" " Elbow	1
" " Eye	1
" " Face	3
" " Finger	137
" " Foot	39
" " Forearm	20
" " Forehead	2
" " Hand	56
" " Heel	1
" " Jaw	1
" " Knee	4
" " Leg	8
" " Lip	6
" " Phelanx	4

Infected wound of Scalp	2
" " " Thigh	2
" " " Thumb	15
" " " Toe	15
" " " Wrist	1
Inflamed Lingual Gland	1
" Leg	1
" Toe	1
Inguinal Gland	1
Injury to Perineum	1
" " Toe Nail	1
" " Shoulder	2
" " Elbow	1
Insect Bite	3
Intestinal Colic	1
" Obstruction	1
Lacerated wound of Arm	11
" " " Buttock	1
" " " Cheek	1
" " " Chest	1
" " " Chin	9
" " " Dorsum	1
" " " Ear	17
" " " Eye	34
" " " Eyebrow	4
" " " Eyelid	11
" " " Face	9
" " " Finger	127
" " " Foot	13
" " " Forearm	19
" " " Forehead	70
" " " Frontal Region	8
" " " Hand	77
" " " Head	6
" " " Knee	6
" " " Leg	22

Lacerated Wound of Lip	45
" " " Mastoid Region	2
" " " Malor Region	2
" " " Mouth	2
" " " Neck	1
" " " Nose	11
" " " Occipatal Region	1
" " " Orbital Region	1
" " " Palate	2
" " " Palm	2
" " " Scalp	274
" " " Scrotum	1
" " " Temple	2
" " " Thigh	4
" " " Thumb	18
" " " Toe	11
" " " Tongue	2
" " " Wrist	11
Laceration over Eye	2
Lime in Eye	2
Lead Poisoning	1
Lumbago	3
Lipoma of Neck	1
" " Scalp	2
Lymphangitis	2
Malingerer	13
Mastitis	3
Measles	1
Medical	11
Melancholia	1
Meningitis	1
Mercury Poisoning	1
Musculo Spiral Palsey	1
Myalgia	3
Myastitis	8
Nail Wound of Foot	9

Nail Wound of Hand	3
" " " Knee	1
Needle in Chest	1
" " Finger	7
" " Foot	1
" " Hand	5
" " Leg	1
" " Plantae Region	1
Needles Extraction	1
Nephritis Chronic	1
Necrotic Bone of Thumb	2
Neuralgia	4
Neurasthenia	1
Neuritis	4
Nitric Acid Burns of Hand	1
Obstruction in Nose	1
Occupational Dermatosis	2
Old Colles Fracture	10
" Greenstick Fracture of Arm	2
Onechia	1
Orchitis	5
Osteomelitis	1
Ostitis	2
" Esterna	1
Ovaritis	1
Ovarian Colic	1
Pain in Chest	1
Patotitis	2
Papelloma of Rt. Palm	1
Papule on Nose	1
Paralysis	2
Pedivulosis	1
Periostitis	5
Pes Plavis	2
Pestule on Finger	1
Pharyngitis	13

Phimosis	5
Pin Pricks	2
Pleurisy	8
" Adhesive	1
Pleuritis	1
Pleürodynia	1
Poisoning	1
" Alcoholic	1
" Bichloride	1
" Carbolic	1
" Gas	3
" Iodine	1
" Ivy	3
" Kerosene	5
" Mercury	1
" Waterbug	1
Powder in Eye	1
Pregnancy	24
" Toxemia	2
Prepatellar Bursitis	2
Prostatitis	1
Prolapse of Rectum	1
Pesstration	2
Psychosis	1
Psychopathic	8
Psudocyisis	2
Punctured Wounds	5
" " of Arm	7
" " " Buttocks	2
" " " Cornea	1
" " " Face	3
" " " Finger	4
" " " Foot	29
" " " Hand	12
" " " Scalp	1
" " " Scrotum	1

Punctured Wounds of Thigh	4
Quinsy Sore Throat	3
Removal of Cyst on eye	1
" " Ring from finger	1
" " Sutures	2
" " Wart from Hand	2
Retention of Urine	4
Retroversion of Uterus	5
Retroflexion of Uterus	1
Rheumatism	6
" Articular	1
" Muscular	1
Renal Colic	2
" Calculi	1
Ring Worm	6
" " of Scalp	1
Rupture of Bladder	1
" " Ligaments of Finger	1
Salpingitis	2
" Chronic	2
Sarcoma of Finger	1
Scabies	2
Scalds of Arm	3
" " Abdomen	1
" " Hand	1
" " Knee	1
" " Leg	2
" " Neck	1
" " Shoulder	1
" " Thumb	1
" " Wrist	1
Scalp Wounds	4
Scarlet Fever	2
Sciatica	7
Scratch on Chest	1
" " Face	2

Scratch on Forehead	2
" " Hand	2
Sebaceous Cyst	3
Seed Wart	1
Separation of Oscalis	1
Severed Radical Artery	1
Senility	1
Sliver from finger	1
Smashed Finger	2
Spasm of Bladder	1
Specific Condition of Lip	1
Spermatorrhea	1
Splinter in Arm	1
" " Finger	3
" " Foot	1
" " Hand	2
" " Knee	1
" Under Nail	3
Spiked left leg	1
Sprain of Ankle	51
" " Arm	1
" " Back	6
" " Elbow	12
" " Finger	13
" " Hand	4
" " Knee	10
" " Shoulder	9
" " Toe	1
" " Thumb	12
" " Wrist	61
Stab Wound of Abdomen	1
" " " Chest	2
" " " Clavicle	1
" " " Hand	1
" " " Lip	1
" " " Leg	1

Stab Wound of Nose	1
" " " Side	1
Starvation	2
Strain of Ankle	2
" " Back	4
" " Chest	1
" " Hand	2
" " Knee	3
" " Side	1
" " Ligaments of shoulder	1
" " " " Chest	1
Sun Burn	3
" Stroke	1
Supracondyloid Fracture	1
Surgical	1
Submersion	4
Supperative Blepharitis	1
" Tonsilitis	1
Swallowed Benzine	1
" Brass Ball	1
" Button	1
" Pin	1
Swollen Ankle	1
" Cheek	1
" Feet	1
" Face	1
" Foreign Body	1
Syncope	26
Synovitis	6
" Traumatic	6
" of Knee	6
Sycosis	1
Syphilis	7
Talipes Equinis	1
" Equino Varus	1
Threatened Uraemia	1

Temporary Aphasia	1
Tenia Tonsurans	1
Tonsils	4
" & Adenoids	6
Tonsilitis	21
" Follicular	7
" Hypertrophied	1
Trachoma	2
Traumatic Amputation of Finger	3
" " " Thumb	
Tuberculosis	9
Tubercular Elbow Joint	1
" Knee	1
" Arthritis Knee	1
Tumor of Alicolar	1
Thrombosis of Left Leg	1
Ulcer of Anus	1
" " Finger	3
" " Foot	5
" " Hand	2
" " Leg	39
" " Lip	3
" " Rodent	2
" Varicose	3
" Syphilitic	2
Ulceration Nasal Septum	1
Ulner Paralysis	1
Undercended Testicle	2
Urethritis	3
Erethral Spasm	1
Urticaria	3
Vaginitis	6
" Gonorrheal	1
Varicose Veins	3
Varicocele	3
Wart on Hand	1

Wart on Nose	1
Wound on Foot	1
" " Forearm	2
" " Leg	1
" " Knee	1
" " Shoulder	1
" " Wrist	1
" over Eye	1
X-Ray Examination	2
Unknown	71

ANNUAL REPORT

OF THE

CITY CLERK

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

Annual Report of the City Clerk

OFFICE OF THE CITY CLERK.

NEWARK, N. J., January 1, 1914.

To the Honorable, the Mayor and Common Council of the City of Newark, N. J.:

GENTLEMEN:—I hereby respectfully submit my report for the year 1913:

Receipts for Excise Licenses.

298	Retail Licenses	@	$400.00.....	$119,200.00
1088	Retail Licenses	@	450.00.....	489,600.00
12	Wholesale Licenses	@	500.00.....	6,000.00
34	Wholesale Licenses	@	550.00.....	18,700.00
19	Beer Bottlers' Licenses	@	150.00.....	2,850.00
23	Beer Bottlers' Licenses	@	200.00.....	4,600.00
631	Retail Transfers	@	10.00.....	6,310.00
8	Wholesale Transfers	@	10.00.....	80.00
5	Beer Bottlers' Transfers	@	10.00.....	50.00
				$647,390.00

Receipts for General Licenses.

815	Peddlers' Licenses	@	$ 5.50.....	$ 4,482.50
22	Hackmen's Licenses	@	10.50.....	231.00
1	Hackman's License	@	10.00.....	10.00
7	Hack Drivers' Licenses	@	5.50.....	38.50
67	Owners of Motor Vehicles Licenses	@	10.50.....	703.50
4	Owners of Motor Vehicles Licenses	@	10.00.....	40.00

Receipts for General Licenses—Continued.

44	Drivers of Motor Vehicles Licenses	@	5.50.....	242.00
100	Junk on Foot Licenses	@	10.50.....	1,050.00
16	Organ Grinders' Licenses	@	10.50.....	168.00
54	Bill Distributors' Licenses	@	2.00.....	108.00
728	Venders' Licenses	@	10.00.....	7,280.00
789	Cartmen's Licenses	@	5.00.....	3,945.00
126	Junk Dealers' Licenses	@	15.00.....	1,890.00
45	Junk Shop Keepers' Licenses	@	25.00.....	1,125.00
4	Bill Posters' Licenses	@	25.00.....	100.00
38	Auctioneers' Licenses	@	50.00.....	1,900.00
12	Pawnbrokers' Licenses	@	150.00.....	1,800.00
30	Employment Agency Licenses	@	25.00.....	750.00
1	Meat Peddler License	@	20.00.....	20.00
16	Theatre Licenses	@	350.00.....	5,600.00
84	Dance Hall Licenses	@	2.00.....	168.00
3	Lodging House Licenses	@	1.00.....	3.00
774	Car Licenses			7,386.07
	Shows and Exhibitions.....			19,817.34
				$58,857.91

Fee Receipts.

350	Marriage Transcripts	@ $	.50.....$	175.00
1121	Birth Transcripts	@	.50.....	560.50
1527	Death Transcripts	@	.50.....	763.50
4092	Marriage Licenses	@	1.00.....	4,092.00
1348	Hunters' Licenses	@	.15.....	202.20
1090	Powers of Attorney	@	1.00.....	1,090.00
135	Special Officers Sworn	@	.25.....	33.75
	Martin Act Fees.....			57.25
	Vital Statistics Certificates.....			4,696.83
	Certified copies			11.00
	Promiscuous			1.00
				$11,683.03

Births, Marriages and Deaths.

Number of Marriage Licenses issued during year 1913...	4,092
Number of Marriages reported during year 1913.....	4,032
Number of births (Male) reported during year 1913.....	5,519
Number of births (Female) reported during year 1913...	5,291
Number of deaths reported during year 1913.....	5,952

REPORT OF DEATHS.

Men	2,084	Women	1,634
Boys	1,272	Girls	962
		Total	5,952

Ages.

One year and under.....	1,532	Between 30 and 40 years..	499
Between 1 and 2 years...	231	" 40 " 50 " ..	651
" 2 " 5 " ...	203	" 50 " 60 " ..	700
" 5 " 10 " ...	118	" 60 " 70 " ..	673
" 10 " 20 " ...	172	" 70 " 80 " ..	531
" 20 " 30 " ...	382	" 80 and over.....	260

Diseases.

Abscess	15	Bright's Disease, Kidneys.	13
" Liver	4	Burns	35
Addison's Disease	1	Calculus of Bladder.....	1
Albuminuria	1	Cancer	130
Alcoholism	57	" Breast	12
Anaemia	25	" Colon	2
Aneurism Aorta	4	" Oesophagus	3
Angina Pectoris	11	" Liver	34
Apoplexy or Cerebral Hemorrhage	304	" Rectum	20
Appendicitis	25	" Stomach	52
Atelectasis Pulmon.....	17	" Uterus	29
Atrophy	2	Casualties	125
Asphyxia	14	Cholera Infantum or Summer Complaint	51
Asthenia	7	Cholera Morbus	1
Asthma	22	Colic	1
Bronchitis	84	Cirrhosis Liver	67
" Capillary	9	Compression, Brain.....	1

Diseases—Continued.

Congestion, Lungs	3
Convulsions	46
Croup	3
" Membranous	4
Cyanosis	4
Cystitis	8
Delirium Tremens	3
Diabetes Melitus	68
Diarrhoea	8
Diphtheria	50
Dropsy	1
Drowned	26
Dysentery	1
Eclampsia	15
Embolism	21
Emphysema Lungs	6
Endocarditis	205
Entero, Colitis	41
Enteritis	14
Epilepsy	9
Erysipelas	34
Fever, Malarial	1
" Scarlet	17
" Typhoid	25
" Yellow	1
Fistula in Ano	1
Fracture. Skull	58
Gangrene	8
" Senile	1
Gastro Enteritis	199
Gastritis	33
Goitre Exepthalmie	2
Gall Stones	2
Heart Disease	296
" Hypertrophy	1
" Organic	4
" Valvular	92
" Fatty Degeneration	7
Hemiplegia	12
Hemorrhage	52
" Lungs	1
" Post Partum	1
Hernia	16
Hydrocephalus	7
Hydrophobia	2
Inanition	64
Inflammation, Bladder	2
Insanity or Dementia	8
Intersusseption Bowels	27
Jaundice	7
La Grippe	8
Leucocythemia	4
Locomotor Ataxia	2
Malformation	4
Marasmus or Malnutrition	136
Measles	11
Lead Ecephalitis	1
Meningitis, Acute	50
" Tubercular	43
" Cerebro Spinal	14
Murder	12
Myocarditis	145
Nephritis	403
Neuralgia	1
Oedema Glottis	3
" Lungs	87
Old Age or Senility	72
Paralysis, General	33
Peritonitis, Acute or Chron.	53
Pericarditis	5
Phthisis, Pulmonalis	99
Placenta Praevia	2
Pleurisy	14
Pneumonia	350
" Broncho	237
" Pleuro	6
Poisoning, Accidental	12
Pregnancy	3
Premature Birth	158

Diseases—Continued.

Pyaemia	4	Sunstroke or Heat Prostration	8
Rheumatism	5	Syphilis	10
Sclerosis	52	Toxemia	1
Rickets	3	Tetanus	6
Septicaemia	58	Tuberculosis	452
Shock	27	Tumor	25
Skin Diseases	2	Ulcers	11
Softening Brain	2	" Stomach	3
Spinal Diseases	1	Uraemia	39
Still Born	494	Whooping Cough	20
Suicide	65		

Places of Nativity.

United States	3,944	Turkey	2
Ireland	483	China	7
England	123	West Indies	2
Scotland	50	Switzerland	14
Italy	232	Denmark	4
Norway	3	Belgium	2
Australia	1	Greece	8
Roumania	6	Canada	15
France	19	Russia	202
Sweden	18	Spain	1
Holland	5	Austria	180
Germany	583	India	1
Venezuela	1	Unknown	46

Color.

White	5,669
Colored	276
Yellow	7

ANNUAL REPORT

OF THE

Municipal Bureau of Employment

FOR THE YEAR 1913

From January 1st to December 31st, 1913, 3,964 persons registered for employment, of which 2,459 were males, 1,505 females.

Employment was procured during the year for 5,603 persons, 1,658 males, 3,945 females. (This does not comprise the full number of positions obtained through the efforts of the Bureau for the reason that many employes sent out by the Bureau procure positions at places to which they were sent, but fail to make report of their engagement.

Since the establishment of the Bureau there were 17,765 persons registered, 11,711 males, 6,054 females.

Many applications were withdrawn, leaving 2,045 applications on file, 1,010 males, 1,035 females, December 31st, 1913.

The employments obtained during the year for males were as follows: Assemblers, 4; Actors, 1; Auto Mechanics, 2; Boys, 142; Blacksmiths, 7; Bench Hands, 31; Butler, 4; Bookkeepers, 2; Bakers, 15; Bartenders, 2; Butchers, 1; Cabinet Makers and Carpenters, 42; Clerks in store, 16; Chauffeurs, 5; Clerks in office, 12; Shipping

and Receiving Clerks, 10; Caretakers, 5; Coremakers, 1; Chefs, 1; Coopers, 2; Domestics, 15; Drivers, 60; Draftsmen, 2; Drop Hammer Hands, 2; Electricians and Helpers, 11; Elevator Operators, 7; Engineers, 7; Engravers, 3; Farmers, 31; Firemen, 23; Factory Hands, 50; Gardeners, 17; Grinders, 1; Garage Hands, 1; Handymen, 330; Harness Makers, 2; Ice Cream Men, 1; Janitors, 5; Japanners, 1; Laborers, 318; Lathe Hands, 12; Leather Workers, 10; Laundrymen, 1; Machine Hands, 21; Machinists, 52; Millwrights, 5; Moulders, 5; Metal Spinners, 1; Masons, 3; Nickel Platers, 1; Metal Workers, 2; Orderlies, 3; Packers, 2; Pipe and Steam Fitters, 9; Platers, 1; Porters, 129; Polishers, 14; Press Hands, 45; Painters and Decorators, 7; Plumbers and Helpers, 9; Salesmen, 13; Shipping Clerks, 14; Steam Fitters, 15; Stablemen, 15; Stenographers, 2; Solicitors, 1; Solderers, 4; Steel Workers, 2; Sprayers, 1; Sheet Metal Workers, 1; Tinsmiths, 7; Toolmakers, 12; Tailors, 3; Utility Men, 25; Upholsterers, 1; Watchmen, 26; Wire Workers, 1; Weavers, 1; Woodworkers, 1; Waiters, 1; Varnishers, 1.

Females—Attendants, 6; Assistant Houseworkers, 20; Cooks, 50; Child's Nurse, 17; Chambermaids, 1; Companions, 2; Clerks in office, 1; Bookkeepers, 1; Demonstrators, 20; Dressmakers, 3; Day Workers, 3,346; Factory Hands, 27; Forewomen, 1; Maids in business, 2; General Houseworkers, 358; Housekeepers, 3; Homeworkers, 6; Janitress, 8; Kitchen Helpers, 5; Laundress, 6; Stenographers, 4; Seamstresses, 5; Waitresses, 59.

STATEMENT
MUNICIPAL BUREAU OF EMPLOYMENT JANUARY 1, 1913

MALE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Assemblers	....	....	....	1	....	1	....	....	1	....	....	1	4
Actor	....	....	....	....	1	....	....	....	....	....	....	....	1
Auto Mechanic	....	....	....	....	....	....	2	....	....	....	....	....	2
Boys	16	12	12	20	10	16	3	10	13	7	13	10	142
Blacksmiths	....	1	....	2	1	1	....	....	1	1	....	....	7
Bench Hands	....	....	3	5	3	1	6	....	16	....	6	1	31
Butler	....	....	....	....	....	....	....	....	....	2	....	2	4
Bookkeeper	....	....	....	....	....	1	....	....	....	....	1	....	2
Baker	....	....	....	....	....	1	1	1	11	....	1	....	15
Bartenders	....	....	....	....	....	....	....	....	1	1	....	....	2
Butchers	....	....	....	1	....	....	....	....	....	....	....	....	1
Cabinetmakers and Carpenters	4	3	1	7	8	3	2	....	7	2	2	3	42
Clerks (Store)	6	4	1	1	....	....	1	....	3	....	....	....	16
Chauffeurs	....	....	....	1	....	2	....	1	....	....	1	....	5
Clerks (Office)	4	....	1	....	1	2	2	1	....	....	....	1	12
Clerks (Shipping and Receiving)	....	....	3	....	....	2	....	....	4	....	1	....	10
Caretakers	....	....	1	1	....	....	2	....	....	1	....	....	5
Coremakers	....	....	1	....	....	....	....	....	....	....	....	....	1
Chefs	....	....	....	....	....	....	....	....	1	....	....	....	1
Coopers	....	....	....	....	....	....	....	....	2	....	....	....	2
Domestics	4	2	1	2	4	....	1	1	....	....	....	....	15
Drivers	4	2	7	6	5	7	9	3	5	9	2	1	60

STATEMENT

MUNICIPAL BUREAU OF EMPLOYMENT JANUARY 1, 1913—Continued

MALE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Draftsmen	....	....	1	....	....	....	....	1	....	....	....	....	2
Drop-hammer Hands	....	....	....	....	....	....	....	....	....	....	2	....	2
Electricians and Helpers	1	4	....	1	....	2	2	....	....	....	....	1	11
Elevator Operators	....	....	2	....	....	....	2	1	....	1	1	....	7
Engineers	....	1	....	....	....	3	....	....	1	....	2	....	7
Engravers	....	....	....	....	....	....	....	2	....	....	1	....	3
Farmers	....	1	2	1	2	6	6	1	6	4	2	....	31
Firemen	4	....	1	2	5	....	3	4	2	....	....	2	23
Factory Hands	22	4	2	....	5	11	....	3	2	....	....	1	50
Gardeners	....	....	1	6	4	2	3	....	1	....	....	....	17
Grinders	....	....	....	....	....	....	....	....	1	....	....	....	1
Garage Hands	....	....	1	....	....	....	....	....	....	....	....	....	1
Handymen	22	24	28	53	45	36	21	15	33	26	16	11	330
Harnessmakers	....	2	....	....	....	....	....	....	....	....	....	....	2
Ice Cream Men	....	....	....	....	....	....	....	....	....	....	1	....	1
Janitors	....	1	....	....	....	1	2	1	....	....	....	....	5
Japanners	....	1	....	....	....	....	....	....	....	....	....	....	1
Laborers	12	16	27	31	31	25	30	14	54	16	40	22	318
Lathe Hands	2	....	1	....	2	....	....	1	2	2	2	....	12
Leather Workers	3	....	....	....	....	5	....	....	1	1	....	....	10
Laundrymen	....	....	....	....	....	....	....	....	....	....	....	1	1
Machine Hands	....	....	8	1	2	6	....	4	....	....	....	....	21

STATEMENT
MUNICIPAL BUREAU OF EMPLOYMENT JANUARY 1, 1913—Continued

MALE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Machinists	4	11	7	5	3	5	2	....	1	6	4	4	52
Millwrights	....	1	....	1	2	....	1	....	....	....	....	....	5
Moulders	2	....	....	1	1	....	....	....	1	....	....	....	5
Metal Spinners	....	....	....	....	....	....	....	1	....	....	....	....	1
Masons	....	....	....	....	....	....	1	....	....	1	1	....	3
Nickel Platers	....	....	....	....	....	....	....	....	....	1	....	....	1
Metal Workers	....	....	1	....	1	....	....	....	....	....	....	....	2
Orderlies	....	1	....	....	....	....	....	....	1	1	....	....	3
Packers	....	1	....	....	....	....	....	....	....	....	1	....	2
Pipe and Steam Fitters	....	8	....	....	1	....	....	....	....	....	....	....	9
Platers	....	1	....	....	....	....	....	....	....	....	....	....	1
Porters	10	4	11	13	16	13	10	11	18	10	9	4	129
Polishers	....	....	4	1	....	1	....	....	1	5	2	....	14
Press Hands	11	....	1	5	....	5	....	4	3	13	3	....	45
Painters and Decorators	....	....	....	2	3	2	....	....	....	....	....	....	7
Plumbers and Helpers	1	....	....	....	....	4	3	....	....	1	....	....	9
Salesmen	1	....	....	2	3	....	1	....	....	4	2	....	13
Shipping Clerks	2	1	1	2	3	....	2	1	....	....	2	....	14
Steam Fitters	9	....	....	2	....	....	....	....	....	....	4	....	15
Stablemen	2	1	....	4	2	....	1	....	3	2	....	....	15
Stenographers	1	....	....	....	....	....	....	1	....	....	....	....	2
Solicitors	....	....	....	....	....	....	....	....	....	....	....	1	1

STATEMENT
MUNICIPAL BUREAU OF EMPLOYMENT JANUARY 1, 1913—Continued

MALE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Solderers	....	....	....	....	4	....	....	....	....	....	....	....	4
Steel Workers	....	....	....	....	....	....	....	....	....	....	2	....	2
Sprayer	....	....	1	....	....	....	....	....	....	....	....	....	1
Sheet Metal Workers	....	....	....	....	....	....	....	....	....	1	....	....	1
Tinsmiths	....	1	1	....	....	2	....	1	....	1	....	1	7
Toolmakers	....	1	1	1	....	1	....	1	....	2	2	2	12
Tailors	....	....	....	....	....	1	....	....	1	....	....	1	3
Utility Men	....	....	....	....	....	....	....	....	4	13	4	4	25
Upholsterers	....	1	....	....	....	....	....	....	....	....	....	....	1
Watchmen	2	....	2	1	7	2	2	2	....	2	2	4	26
Wireworkers	....	....	....	....	....	....	....	....	....	1	....	....	1
Weavers	....	....	....	....	....	1	....	....	....	....	....	....	1
Woodworkers	....	....	....	....	....	1	....	....	....	....	....	....	1
Waiters	....	....	....	....	....	....	....	....	1	....	....	....	1
Varnishers	....	....	....	....	1	....	....	....	....	....	....	....	1
Totals	149	110	135	183	175	172	121	86	193	137	132	78	1,658

STATEMENT
MUNICIPAL BUREAU OF EMPLOYMENT JANUARY 1, 1913—Continued

FEMALE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Attendants	2	2	2	....	....	....	....	....	....	....	....	....	6
Assistant Houseworkers	2	4	9	5	....	....	....	....	....	....	....	....	20
Cooks	10	3	5	5	1	1	5	4	6	2	2	6	50
Children's Nurses	1	1	4	5	1	....	....	2	1	....	2	....	17
Chambermaids	....	....	....	....	....	1	....	....	....	....	....	....	1
Companions	....	....	....	....	....	....	....	....	....	1	....	1	2
Clerks (Office)	....	....	....	....	....	....	....	....	....	....	1	....	1
Bookkeepers	....	....	....	....	....	....	....	....	....	1	....	....	1
Demonstrators	18	....	....	....	....	....	1	....	....	....	....	1	20
Dressmakers	1	....	....	....	....	....	2	....	....	....	....	....	3
Day Workers	446	346	315	289	228	219	272	320	251	246	232	182	3,346
Factory Hands	1	4	5	....	....	....	....	4	....	2	3	2	27
Forewomen	1	....	....	....	....	....	....	....	....	....	....	....	1
General Houseworkers	29	36	19	58	13	22	26	31	34	20	33	37	358
Housekeepers	....	....	....	....	....	....	....	3	....	....	....	....	3
Homeworkers	....	....	1	....	....	....	2	3	....	....	....	....	6
Janitresses	1	....	....	....	....	....	1	2	1	1	1	1	8
Kitchen Helpers	....	....	....	1	....	....	3	....	....	....	1	....	5
Laundresses (permanent)	1	....	....	....	....	1	2	....	2	....	....	....	6
Maid in Business	....	....	....	....	....	....	....	1	....	....	....	1	2
Stenographers	1	....	1	....	....	....	....	1	....	....	....	1	4
Seamstresses	....	....	....	....	....	....	....	....	....	....	2	3	5
Waitresses	4	3	7	2	3	....	6	11	7	5	7	4	59
Totals	499	418	368	365	246	244	320	382	302	278	284	239	3,945

ANNUAL REPORT

OF THE

Bureau of Statistical Information

FOR THE YEAR 1913

The report of the Bureau of Statistical Information, a branch of the City Clerk's Office, is herewith submitted.

The Bureau has been used more frequently during the past year than ever before by officials, attaches of departments, lawyers, searchers, surveyors, conveyancers and others, and has been highly commended for efficiency and on the excellent facilities it affords for the convenient acquiring of important and necessary information.

Among the most important topics on which information has been solicited and obtained are the following: Assessments, band concerts (municipal), billboards, billposting, buildings, celebrations, cemeteries, census, charitable institutions, children, city finance, city ordinance, city planning, civic reform, civil service, commission government, condemnation of land, dogs, dog pounds, dog tax, education, elections, employment, excise, financial, fire department, fire insurance, fire loss, fire prevention, fireworks, franchise, garbage, gas, general municipal information, grounds (public), health, historical societies, house numbering, juvenile maintenance, laws, leagues (municipal), licenses, license fees, lighting, lodg-

ing house regulations, markets (public), marriage and marriage licenses, Morris Canal, national government, navigation, Newark information, outings (public), parks, pensions, playgrounds, plumbing, police department, poor and alms, railways (steam), railways (street), statistics (vital), streets, Sunday law, taxes, theatres, utilities (public), schools (building), school sites, statistics of cities, voting machines, water, weights and measures.

Access to the books in the library and the archives is limited to employes of the Bureau only, who are all attaches of the City Clerk's Office who have been assigned to this most important work. This rule has been found necessary to assure safe and orderly control of the documents of every description that make up the unit of the archives of the city, and examinations, official or otherwise, is permitted in the presence of an attache only.

During the year under review, 1,262 queries were received from all sources and acted upon. Among these were included inquiries from municipal offices, civic bodies and individuals of this and 390 other cities.

Researching is done for the several city departments, saving them the time and expense incident to such work.

The various departments of the city government are constantly adding to the archives, filing monthly or oftener such of their books and papers as are not in current use. These are carefully classified and filed.

The accessions to the library of the Bureau were as follows: Ten hundred and ninety-eight books and pamphlets were received. Of these 623 were municipal publications from 127 cities and towns of the United States, 115 from foreign cities, 78 State publications from 34 States of this country, 97 Federal publications, 19 Essex County publications and 117 miscellaneous

publications relating to the City of Newark. There were also 49 general publications received, official and non-official.

One thousand seven hundred and twenty-three books and pamphlets relating to local administration were sent to 230 cities and towns.

Respectfully submitted,

JAMES F. CONNELLY,
City Clerk.

The Free Public Library of Newark, New Jersey 1913

Twenty-fifth Annual Report of the Board of Trustees to the Honorable The Common Council Of the City of Newark, New Jersey, 1913

Board of Trustees, 1914

HON. JACOB HAUSSLING.....Mayor of Newark
Ex-Officio.

ADDISON B. POLAND.....Superintendent of Public Schools
Ex-Officio.

RICHARD C. JENKINSON.....Term expires 1914
JAMES E. HOWELL.....Term expires 1914
ARCHIBALD MERCER.....Term expires 1914
EDWARD T. WARD.....Term expires 1914
JOHN H. ELY.....Term expires 1914

Standing Committees

Finance.....MESSRS. JENKINSON, HOWELL, ELY
Book.....MESSRS. HOWELL, JENKINSON, MERCER
Library.....MESSRS. WARD, POLAND, ELY
Branches.....MESSRS. ELY, POLAND, MERCER
Assistants.....MESSRS. POLAND, WARD, ELY

Art and Science Collections...MESSRS. MERCER, HOWELL, JENKINSON
President of the Board.....HON. JACOB HAUSSLING, Mayor
Vice-President of the Board.....RICHARD C. JENKINSON
Treasurer of the Board.....EDWARD T. WARD
Secretary of the Board.....JOHN COTTON DANA

LIBRARIAN,

JOHN COTTON DANA.

Officers and Trustees

List of Names of All Who Have Served as Officers or Trustees of the Free Public Library from 1888-1913.

PRESIDENTS

*Haynes, Joseph E.....1888–1893
*Lebkuecher, Julius A.....1894–1895
*Seymour, James M.....1896–1908
Doremus, Henry M.....1903–1906
Haussling, Jacob.....1907–

VICE-PRESIDENT

Jenkinson, Richard C.....1912–1913

TREASURERS.

*Duryee, George S.....1888–1889
*Duryee, Edward H.....1889–1901
Meany, Edward P.....1902–1903
Ward, Edward T.....1903–

SECRETARIES.

Macdonald, Samuel J.....1888–1889
Hill, Frank P.....1889–1901
Dana, John Cotton.....1902–

TRUSTEES.

*Barringer, William N.....1888–1895
Doremus, Henry M.....1903–1906
*Duryee, Edward H.....1889–1901
*Duryee, George S.....1888–1889
Ely, John H.....1909–
Fort, J. Franklin.....1888–1889
*Gilbert, Charles B.....1896–1900
*Goble, L. Spencer.....1888–1891
Haussling, Jacob.....1907–
*Haynes, Joseph E.....1888–1893
Howell, James E.....1895–
Jenkinson, Richard C.....1897–
*Johnson, William.....1893–1909
*Lebkuecher, Julius A.....1894–1895
Macdonald, Samuel J.....1888–1893
Meany, Edward P.....1902–1903
Mercer, Dr. Archibald.....1904–
*Peabody, James.....1889–1896
Poland, Addison B.....1901–
*Seymour, James M.....1896–1902
Taaffe, James.....1892–1902
*Teese, Frederick.....1888–1893
Ward, Edward T.....1903–
*Ward, Leslie D.....1894–1895

*Deceased.

Library Service

JOHN COTTON DANA, *Librarian.*

BEATRICE WINSER, *Assistant Librarian.*

OFFICE OF LIBRARIAN

Grace Ashley, *Secretary*
Anna C. Haas, *Stenographer*

OFFICE OF ASSISTANT LIBRARIAN

H. Muriel Walker, *Secretary*
Elsie Krach
Lucy L. Marsch, *Stock Clerk*
Winifred Le Huray
Elsie Choate, *Messenger*
Bessie Steele, *Printer and Multigrapher*

CATALOG DEPARTMENT

Adelaide F. Evans, *Chief*

Tillie J. Smith
Julia B. Douglas
Gertrude Taylor
Madeline Corkill
Elsie Boehringer, *Messenger*

ORDER DEPARTMENT

Isabel McD. Howell

TECHNICAL DEPARTMENT

W. B. Morningstern, *Chief*
Edna B. King
Pauline Thomas, *Messenger*

LENDING DEPARTMENT, *including* REGISTRATION AND FICTION

Margaret McVety, *Chief*

Victoria Richmond
Margaret Foley
Maud D. Reynolds
Almyra Ashmun
Emilie Hill
Kate O. Ricketts
Agnes M. Elliott
Mabel E. Colegrove
Olive G. Simmons
Grace Thompson

Messengers

May Buehler
Ethel Potter
Eva Mellick
Edith Peterson
Hilda Ferris
Ruth Choate
Elsa Eschbach
Emily Bleecker

CHILDREN'S DEPARTMENT

Marguerite L. Gates, *Chief*
Beatrice L. Wallack
Hazel Lear, *Messenger*

SCHOOL DEPARTMENT

Catherine Van Dyne
Adelaide Wright
Felicia Russ, *Messenger*

ART DEPARTMENT

Including those who do the work of the Newark Museum Association

Marjary L. Gilson, *Chief*
Helen W. Foster
Alice W. Kendall
Blanche Gardner
Gertrude Koch
Helen Smith

BINDING DEPARTMENT

E. Dora Jaques, *Chief* — Marion L. Buchanan

Martha Booraem

BRANCH AND STATION DEPARTMENT

Alice Wilde, *Chief* — Mary E. Fannan

Messengers

Ione Pollard — Florence Boycott

TELEPHONE SWITCHBOARD

Kathryn Van Loan — Hazel Green

ENGINEER DEPARTMENT

George A. Warren, *Chief Engineer*

Peter Dowd, *Assistant Engineer* — Frederick Guttenberg, *Fireman*

Chris. Faustmann, *Fireman* — William Bieger, *Fireman*

JANITOR AND ELEVATOR SERVICE

George A. Wales, *Chief*

John Farrant, *Branch Janitor*

James McKee — John Allen

James Hutchison — Fred Fahrer

James Ryan — Charles Condit, *Night Watchman*

Walter Truitt — Clifford L. Moore

Patrick Murphy — Charles Winkler

John Evans, *Messenger for Overdue Books*

BRANCH 1

Sarah Ball — Kate L. Roberts

Bessie Brown

Messengers

Adelaide Kight — Florence Shader

BRANCH 2

Frances Herrick

BRANCH 3

Emma A. Grady — Eva Brook

Anna M. Borden, *Messenger*

BRANCH 4

Linda H. Morley — Mabel Lutts

Marion Doty

Messengers

Mildred Bates — Sara Bassewich

Margaret Langrill

BRANCH 5

Maud M. Pugsley

BRANCH 6

Dorothy Bennett

HIGH SCHOOL BRANCH

Elizabeth B. McKnight

SPECIAL OFFICER

Samuel Sheppard

Report of Edward T. Ward, Treasurer, 1913

Jan. 1	To balance as per report for 1912			$ 561.58
May 19	To Rhode Island School of Design		$ 15.00	
Aug. 4	To State of Wisconsin for report on schools		63.00	
Aug. 20	To Bibliog. of Social Science, refund.		3.00	
Sept. 17	To U. S. Express Co., damage to scales		6.20	
Oct. 17	To Leo Stern, atlas case		35.00	
Nov. 5	To W. P. Young estate bequest		500.00	
Dec. 19	To State of New Jersey, Pleasure and Profit		16.00	
Dec. 31	To City appropriation, 1913, less amount deducted for interest and sinking fund charges		108,108.00	
	To special appropriation for new boiler, elevator, and elevator work		7,100.00	
	To interest on deposits		186.25	
	To Clark Thread Co., on account Branch 2		113.75	
	To Newark Museum Association:			
	For services	$3,305.97		
	For printing	25.00		
	For show cases	33.50		
	For industrial specimens	25.00		
	For cartage	3.50		
			3,392.97	
	To Newarker:			
	Subscriptions and sales	$ 667.40		
	Public Service Corporation	437.34		
	Newark Museum Association	42.50		
	Medical Library	40.00		
			1,187.24	
	To fines, duplicate collection, etc., for the year		11,676.16	
				132,402.57
				$132,964.15

FINES, ETC., BY MONTHS:

December, 1912	$ 1,023.90
January, 1913	1,094.97
February, 1913	960.24
March, 1913	1,093.87
April, 1913	1,008.15
May, 1913	1,051.29
June, 1913	974.60
July, 1913	822.57
August, 1913	747.67
September, 1913	813.02
October, 1913	1,055.07
November, 1913	1,030.81
	$11,676.16

FINES, ETC., BY CLASSES.

Fines.

Main Library	$2,497.43
Branch 1	726.01
Branch 2	42.36
Branch 3	462.24
Branch 4	382.05
Branch 5	158.21
Branch 6	330.67
Deposit Stations	528.63
High School	94.32
	$ 5,221.92

Duplicate Collection.

Main Library	$ 1,122.46
Branch 1	1,766.77
Branch 2	.96
Branch 3	970.30
Branch 4	90.37
Branch 5	170.18
Branch 6	656.77
Deposit Stations	790.56
High School	20.79
	$ 5,589.16

Non-resident and temporary borrowers	$ 138.50
New cards	.60
Reserves	33.12
Lost books	326.66
Damaged books	144.45
Telephones	18.68
Lecture hall	24.00
A. L. A. lists	.20
100-Novel lists	10.54
1000-Novel lists	2.09
Art and Printing catalogs	.95
Y. P. D. lists	6.21
Reading for Pleasure.	11.93
Paper, stock, etc	54.10
Miscellaneous	93.05
	$ 865.08

By expenditures upon vouchers audited by the proper committees and ordered paid by the Board of Trustees upon the following accounts:

Books	$ 15,304.62
Art books, pictures, etc	830.88
Binding	5,621.45
Periodicals, main library	1,457.77
Periodicals, branches and schools	371.39
Postage, general	1,023.40
Postage, branches	137.00
Postage, lending depts	280.16

Catalog department, incidentals	255.00	
Trolley fares	360.00	
Express, cartage, etc	733.90	
Telephone, rental	405.22	
Janitor's department supplies	719.57	
Cleaning windows	300.00	
Water and ice	396.55	
Building repairs, alterations	1,763.85	
Furniture, equipment and repairs	2,131.01	
Insurance	668.83	
Coal	5,312.67	
Water, boiler	257.13	
Oil, waste, etc	284.87	
Lamps	327.19	
Carting cinders	166.00	
Engineer's sundries	122.61	
Repairs, boilers, furnaces and pumps	319.34	
Repairs, engines, dynamos and switchboards	86.66	
New boiler	2,465.58	
New elevator, etc	4,942.00	
Gas	319.05	
Printing	472.61	
Printing lists and reports	238.75	
Newarker	2,025.83	
Stationery	1,145.39	
Lantern operating	15.00	
Legal expenses	407.36	
Incidentals from petty cash	660.98	
Miscellany	1,562.45	
Dues and memberships	119.25	
		$ 54,011.32
Delivery stations, deliveries	$ 534.00	
Delivery stations, incidentals	49.50	
Delivery stations, keepers	1,039.66	
		$ 1,623.16
Branch deliveries	$ 769.50	
Branch 1, rent	$3,300.00	
Branch 1, light	50.05	
Branch 1, incidentals	179.83	
	$ 3,529.88	
Branch 2, incidentals	8.15	
Branch 3, rent	$1,200.00	
Branch 3, light, etc	467.18	
Branch 3, incidentals	47.22	
	1,714.40	

Branch 4, rent	$1,380.00		
Branch 4, light, etc	205.43		
Branch 4, incidentals	211.88		
		1,797.31	
Branch 5, rent	$ 720.00		
Branch 5, light, etc	303.83		
Branch 5, incidentals	40.44		
		1,064.27	
Branch 6, rent	$ 150.00		
Branch 6, light, etc	56.20		
Branch 6, incidentals	103.38		
		309.58	
Branch, High School		8.50	
			$ 9,201.59
Salaries, Library Service.			
Librarian's office	$7,775.31		
Assistant Librarian's office	3,679.33		
General office	962.15		
Catalog dept	3,362.55		
Technical dept	3,091.78		
Lending and reference	7,105.15		
Fiction dept	1,976.64		
Registration dept	2,017.19		
Art dept	4,564.92		
Children's dept	1,362.24		
School dept	2,937.22		
Bindery and repair	1,865.92		
Exhibitions	975.81		
Telephones	454.27		
Sundays and holidays	261.00		
Branches and stations	2,636.58		
Branch 1	3,058.74		
Branch 2	295.00		
Branch 3	1,588.45		
Branch 4	2,859.61		
Branch 5	1,032.91		
Branch 6	947.14		
		$ 54,809.91	
Janitors		7,351.82	
Engineers		4,781.10	
Elevators		684.58	
			$ 67,627.41
Balance December 31			500.67
			$132,964.15

Report of the Librarian

Agencies of Distribution

Main Library	1	Police Libraries	2
Branches	7	Post Office Library	1
Deposit Stations	13	School Libraries	439
Factory Libraries	3	Traveling Libraries	11
Firemen's Libraries	20		
		Total	497

Distribution of Books.

Books Lent.—The library was open 305 days. The number of volumes lent for home use during the year was 1,098,398.

About a third of all books lent are taken from the main library and nearly half of them from the six branches.

The technical department continually grows fuller and richer, and is slowly, but surely, finding its place as one of the most helpful of all institutions in our distinctively manufacturing city.

The use made of the art department grows steadily as it becomes better known and as its resources are increased. The collection of pictures, perhaps unsurpassed as a whole in the combination of quantity and arrangement, has steadily improved in quality.

Rather notable additions have been made to the collection of about a thousand prints and to the several hundred beautiful reproductions of paintings.

Branch 1 was moved, in December, from the room on Clinton street to a two-story fireproof building on Beaver street, erected for the purpose and leased from the owner.

The Branch on Clinton Avenue, No. 6, has been for six months in cramped quarters upstairs, but now moves into a building also erected for the purpose and taken on a long lease.

Branch 4, on Hayes Street, near Fifteenth Avenue, greatly needs larger quarters. Foreigners and their children are insatiable readers. Branch 3, Orange Street, near Roseville Avenue, has grown greatly in popularity.

Branch 5, 205 Ferry Street, is in very inadequate quarters, but nevertheless shows an increase in patronage.

Salaries of assistants have been increased in many instances, and the hours per week have been reduced to forty-two, all in accordance with the rise in prices and in the standard of living. The general efficiency of the staff steadily increases, and in spite of certain very serious difficulties due to state civil service, the work of the library has been managed in a way that seems to be very satisfactory to the general public.

Work with schools has included the giving of many special lessons to visiting classes, instruction of normal school pupils, up to September, and the preparation and distribution of 439 libraries to teachers.

All fiction is lent in the main building from a room on the first floor. This has made the former general lending room much quieter and far more attractive to readers and students. The whole second floor is now in effect a reference room, and a far more satisfactory one than was possible under the old arrangement.

The vertical file, containing information concerning affairs of present day interest, has been enlarged and carefully arranged, and is now easily the most valuable tool the library possesses.

Newark newspapers have given the same generous notices of the library's work as heretofore.

Lists and notes compiled, duplicated and distributed have numbered 18,000 items of 350 different kinds.

The removal of all work connected with the registration of borrowers, for main library and all branches, to a room on the main building's first floor, has proved a very successful change.

The house organ, called "The Newarker," has been continued during the year.

The Museum Association's work in all its aspects is still carried on by the library staff. Much of this work, though by no means all, is paid for from the museum's income. The Association now occupies, with its collections of art and sciences, its books and its workers, six rooms, including the lecture hall, and the halls and corridors on two floors.

The city council very generously gave the library an extra appropriation of $7,100 for an additional boiler, service elevator, and other elevator work. The museum's activities added to those of the library made a second elevator very much needed. The library and the museum together not infrequently have in use the equivalent of 2,200 electric lamps of 16 candle power, in addition to two elevators and several book-lifts and fans. The two engines, which have, under an efficient engineer, generated the library's light and power for fourteen years, were able to do the work put upon them, but two boilers are not sufficient to furnish the needed steam, now that all the rooms in the building are in use at the same time, as is often the case.

J. C. DANA, Librarian.

The Library's Work in Outline

The library purchases each year an average of 17,000 volumes, costing about $23,000; receives as gifts an average of 800 and secures by binding its periodicals an average of 400; total, 18,200. These it catalogs and prepares for use, at a cost, including selection, ordering and recording, of about $4,000.

It opens the library building every day in the year, save two, an average of eleven and one-half hours per day. That is, the library building is open and used by the public each year 4,200 hours, nearly 30 per cent. more than court houses, city halls and store and office buildings are open. These added hours entail added cost in fuel, lighting and attendance. The library week is eighty-four hours long. The library hours of service for each individual are forty-two per week. One-fourth of the hours of opening are after 6 p. m.

The library secures by purchase 959 periodicals in English, French, German, Italian and other languages, and receives 364 others as gifts. The current numbers of all of these, 30,000 per year, are kept on file for easy use.

The library keeps open six branches with from one to six persons in charge of each. These branches are open an average of 45 hours per week. While they are open the books and papers in them are accessible to all citizens, old and young, in their respective neighborhoods.

In the main building the library keeps open and looks after thirty-two rooms devoted to library purposes, and warms, lights and looks after six other rooms and six halls occupied by the Newark Museum Association.

It also warms, lights and cares for two rooms in which are held each year a total of 400 meetings by educational and civic bodies.

To the main building there come each year an average of about 500,000 persons, to visit the building, consult books, read and study, and to borrow books, pictures and other objects for home use.

The library has a collection of over 50,000 mounted and 300,000 unmounted pictures large and small, for educational and trade work, all classified by subject, and with them supplies teachers in each of fifty-six school houses, and many artists, designers, jewelers, badge makers and many others. Of these pictures the library lent last year over 56,000.

The library lends, transports to and fro, and cares for libraries of about forty books each in 400 rooms in the public schools of the city. It places books for lending in eleven stores according to arrangements made with proprietors. It lends collections of books and looks after the same for the use of the employees in thirty-eight public and private institutions.

At a low estimate 100 persons a day come to the library's several departments and branches to ask for and receive information on questions of importance to them. This means a total of 300,000 helped during each year. If the value of the help so afforded were to be set at twenty-five cents for each inquirer its total for the year would be $75,000.

It lends for home use, receives and receipts on return, every year, about 1,100,000 volumes.

The library has a vertical file of current information, containing 55,000 pamphlets, leaflets, manuscript notes and clippings, alphabetically arranged under 4,000 different headings.

It has a collection of 180 large maps on rollers, of 700 on large cards in alphabetical order, 450 folded and arranged alphabetically in envelopes, and 475 rolled and stored conveniently for use, and 75 atlases.

It has about 1,000 valuable lithographs, etchings and engravings, 1,000 large photogravures of the world's more important paintings and 3,000 photographs of paintings, sculpture, architecture and notable places.

It has on its shelves 205,000 volumes, indexed in a catalog of 350,000 cards. Of these 150,000 are open to the public, are daily put out of order by visitors and are daily again set in order and are frequently cleaned and dusted.

It rebinds each year 12,000 to 15,000 volumes at an average cost of about 43 cents each, and repairs 40,000 others.

Some of the Work of the Library for the Past Twelve Years

The total city appropriation per capita of public libraries in most of the large cities of this country averages $.355, that of Newark is $.32.

The total per cent. paid in salaries for assistants and all other kinds of service of the total expenditures in the larger cities of the country is .561, in Newark .536.

The number of books lent per capita by the libraries of the larger cities of this country is 2.69, in Newark 3.03.

The number of books lent by a library depends on the character of the population of the town, the number of volumes in the library, the location of the library (whether central or not), the provision for branches and many other facts. Newark's main library is not central; it is much younger than most of the libraries in large cities. It has no expensive branch library buildings paid for by Mr. Carnegie. It has 200,000 volumes (pop. 348,000); where Buffalo has 300,000 (pop. 424,000); Cincinnati, 431,000 (pop. 365,000); St. Louis, 352,000 (pop. 687,000), and Cleveland 445,000 (pop. 560,000). The

number of volumes lent for home use in Newark is 1,098,000; in Buffalo, 1,463,000; Cincinnati, 1,507,000; St. Louis, 1,439,000; Cleveland, 2,395,000.

From the above figures it appears that the library of Newark seems to do about as much with its income, in the way of purchasing books and distributing them in the city, as does the library of any other city of about the same size.

In addition to this work in which the Newark Library is about on a par with others, the Newark Library has in the past twelve years done the following things:

1. Arranged with organizations of many kinds for a total of 6,062 meetings in the library by those organizations, day and evening, with a total attendance of about 190,000. This included keeping records of engagement of rooms, correspondence with applicants, discussing the propriety of giving certain organizations free use of a public building, etc. The janitorial and engineer work included the opening and preparation of rooms nearly 6,000 times, moving chairs, setting platforms, providing of lantern and curtain, supplying light and heat and cleaning of rooms after every meeting. Perhaps no library in this country, large or small, has done a tenth as much of this social centre and general public service work. The expenses due to this work have been quite large; as has also been the special work thrown upon the staff and carried without extra pay.

2. Arranged through a large correspondence, installed, supplied assistants for and carried through a total of seventy-four exhibitions of many kinds, such as Printing, Forestry, Geography, City Planning, Work in Sewing, Manual Training, Design, etc., of our Public Schools, Work of the boys in the City Home at Verona, Paintings, Prints, Posters, Sculpture, Newark Industries, Newark History, etc., etc. These exhibitions have been attended by a total of about 300,000 citizens.

3. Has developed a technical department which in completeness and efficiency of service given to mechanics, artisans, manufacturers, etc., is excelled by few libraries in the country, and by none of the size of that of Newark.

4. Has gathered and arranged a collection of material illustrating the arts and sciences, history, biography, geography, nature in all its aspects, and hundreds of other subjects, that for extent and for convenience of arrangement is probably unequalled. Other libraries have produced in the same eleven years collections of a similar nature, but not equal to that of Newark, which contains 350,000 illustrations, 50,000 of which are uniformly mounted and ready to lend. The use of this collection daily increases and its great value is proclaimed by all who use it.

5. Has gathered more than a thousand pictures of a size to be seen across a schoolroom, has so arranged and classified them that they may be easily examined and has lent them to teachers in our schools many thousands of times. By the teachers they are used to decorate school rooms, to show to the pupils in classes old and young, and to aid in teaching subjects of many kinds. There is no other collection like this, similarly used, in this country.

6. Has established six branches in rented rooms in different parts of the city and has administered them so successfully that from them are now lent each year 500,000 volumes. From some of these very humble branches, opening upon a street like a store, have been lent more books per year (for example, Branch 4 on Hayes Street, near Springfield Avenue, 143,569 books in 1913), than have been lent in a year in other cities from elaborate branch library buildings costing up to $125,000 each, exclusive of the land.

7. In the Barringer High School has supplied books, binding, repair, periodicals and catalog work for a library which now numbers over 6,000 volumes and has become one of the most efficient in the country.

8. In its School Department has an organization which offers a center of information and help in their work to all teachers; lends each year 440 small libraries of about 40 volumes each to 300 teachers to use in their school rooms; gave regular courses, for which it has prepared a text book on the use of books, to pupils in the Newark Normal School, and supplies from a large collection much of the material for the study of Newark in the schools, a study which this same department was largely instrumental in establishing.

9. With a little aid from a generous citizen, has made a collection of about 1,000 engravings of all kinds and of material illustrating the methods of producing them, which is quite unique. Two or three only of the largest libraries have engraving collections and they are nearly all gifts and not the outgrowth of the library's own activities.

10. Prepared for other libraries twenty collections of material illustrating all aspects of book-making. These collections included about 20,000 items, all mounted, classified and labeled.

11. Studied the subject of binding and prepared an illustrative exhibit of its conclusions, which was, at their request, borrowed and shown in more than forty libraries in other cities. Its studies in this line led also to the establishment of a shop in Newark which employs about sixty Newark workers in binding for libraries in cities as remote as Jacksonville, Florida, and St. Louis, Mo.

12. Through its interest in printing the library was chiefly instrumental in the preparation and display, in many cities, of the work of students of printing in the schools maintained by the International Typographical Union.

13. In its Business Branch, established for the first time in the history of library work, a collection of books centrally located for the use of business men.

14. Incidental to this, suggested and was chiefly instrumental in causing to be founded a Special Libraries' Association, composed of librarians of banks, insurance offices, manufactories, railroad offices and scores of other kindred institutions. This Association, of which Newark's librarian was president for the first two years, now has several hundred members, publishes a monthly journal and has contributed notably to the success of the movement for the wider and more efficient use of printed information by men of affairs.

15. Through this branch, caused to be made an index of the manufacturers of Newark and the things they manufacture.

16. In the last two years has published monthly a journal called "The Newarker," to call the attention of the business men of Newark to the fact that the library, which they have established and generously maintain, is ready and able to give to them a service more practically and immediately helpful than they have realized it is competent to give.

This "Newarker" has gained high words of praise not only in Newark, but the country at large.

17. Once more it should be stated that these things, and the ordinary and usually accepted work of a free public library as well, have been done by the library of Newark at the same cost at which the ordinary work alone is done in other cities. That the ordinary work has been well done is indicated by the fact that the use of books from the library increased in eleven years a little more than 300 per cent., from 320,000 to 1,000,000.

This work has been done by a staff that is paid the same average total salary as similar staffs are paid in other cities.

18. Has been chiefly instrumental in bringing about the establishment of a Museum of Art and Science in the library building. The work leading up to the establishment of this museum was all done on the library income. Not until the Museum was well under way did the Museum Association begin to pay for the services which it secured from the staff, and even now, when the Museum occupies the whole of the fourth floor of the building and portions of the other floors—six large rooms and six large corridors, including a large office room, and possesses, installed in the library, 53 glass cases filled with art objects and 126 cases filled with objects of science, several large paintings, many engravings, and a collection of casts of famous sculptures, the library out of its ordinary income supplies general advice and constant guidance, as well as heat and light and a part of the janitor service incidental to keeping the whole thing open and in proper condition.

It should be noted that nearly all the cities with which Newark's library activities are herein compared are cities enjoying what one may call an independent existence. They are not, as Newark is, the manufacturing suburbs of other great cities which overshadow them and divert to themselves much of the interest of the more active citizens. It may perhaps be truly said that, of all our large northern cities, Newark is the most difficult one in which to promote the habit of reading and the use of books. This, because of New York's distracting influence, the large percentage of handworkers in its population who can read only at the end of a day of physical labor, and the large number of those who can read little or no English. In spite of this fact, and in spite of the youth of the library, and in spite of the comparatively small collection of books that the city owns, the record of the Newark Library for eleven years is as above stated.

BOOKS LENT, 1913, AT MAIN LIBRARY, BY CLASSES

	Adult	Children	Total	Per Cent.
General works	1,405	1,091	2,496	0.7
Philosophy	5,455	103	5,558	1.5
Religion	3,474	610	4.084	1.2
Sociology	10,829	8,036	18,865	5.2
Philology	2,753	1,522	4,275	1.2
Natural Science	8,694	1,453	10,147	2.9
Useful Arts	15,957	1,108	17,065	4.8
Fine Arts	12,788	2,245	15,033	4.2
Literature	16,850	2,318	19,168	5.3
History	5,548	3,504	9,052	2.5
Travel and Description	5,478	1,800	7,278	2.0
Biography	5,491	2,278	7,769	2.2
Fiction	168,509	30,110	198,619	55.4
Duplicate Collection	23,632	.....	23,632	6.6
Periodicals	15,290	.....	15,290	4.3
	302,153	56,178	358,331	

BOOKS LENT, ARRANGED BY AGENCIES

	1910	1911	1912	1913
Main Library, adult	285,307	288,533	287,999	286,863
Main Library, children	57,539	64,002	58,681	56,178
School Libraries	126,129	143,797	107,880	107,844
Branch 1	81,947	95,715	106,366	100,004
Branch 2	12,988	12,901	11,999	12,150
Branch 3	62,040	75,617	84,265	109,236
Branch 4	99,529	126,782	142,593	143,569
Branch 5	47,971	54,215	54,642	55,588
Branch 6	59,673	72,122	79,050	78,645
Barringer High	10,252	13,279	12,341	11,637
Deposit Stations	55,989	72,427	90,766	95,631
Post Office	1,184	1,277	1,114	1,062
Firemen's Libraries	7,200	7,200	7,200	7,200
Police Libraries	2,400	2,400	2,400	2,400
Periodicals	14,520	14,764	17,722	21,243
Factory Libraries	1,203	2,534	2,748	3,161

City Home	1,080	1,373	1,319	1,164
House of Detention	.....	2,466	1,522	2,070
Y. W. C. A.	421	745	1,138	1,138
Other Traveling Libraries.	2,293	2,155	1,309	1,615
	929,665	1,054,304	1,073,054	1,098,398

BOOKS LENT, 1889-1913

The circulation for the past twenty-four years is as follows:

1889–90	330,810	1902	357,266
1890–91	306,066	1903	428,564
1891–92	272,347	1904	465,674
1892–93	268,320	1905	511,294
1893–94	321,533	1906	552,615
1894–95	332,078	1907	629,891
1895–96	337,738	1908	851,009
1897	364,728	1909	852,785
1898	357,504	1910	929,665
1899	346,985	1911	1,054,304
1900	331,526	1912	1,073,054
1901	314,874	1913	1,098,398
Total			12,689,028

ACCESSIONS, 1913

Number of volumes in the library as last reported	203,257
Increase by purchase	14,699
Increase by gift	961
Increase by binding pamphlets	596
Increase by binding periodicals	618
Number of missing volumes restored since last report	403
Number of volumes received since last report	17,277
Number of volumes missing or withdrawn since last report.	15,317
Total number of volumes in library	205,217

ACCESSIONS, BY CLASSES

General works	411
Philosophy	132
Religion	188
Sociology	938
Philology	130
Natural Science	333

Useful Arts	677
Fine Arts	607
Literature	612
History	256
Travel and Description	362
Biography	269
Fiction	648
Duplicates	11,311
Total	19,130

1913, MISCELLANEOUS STATISTICS

	Adult Dept.	Children's Room.
Average daily use (home) main library only	843	184
Largest daily use (main library only)	2,418	617
Smallest daily use (main library only)	401	33
Volumes lost and paid for	239	185
Volumes worn out and withdrawn	6,224	5,103
Number of reserve postals issued	2,032	69
Registration department:		
Volumes collected by messenger	426	88
Names registered during the year	12,824	6,025
Total live registration	37,184	18,582
Contagious diseases reported by Board of Health	6,487	
Cards withheld on this account	157	
Bindery department:		
Books bound		12,875
Cost of binding		$5,647
Cost per volume		.43
Books repaired		37,273
Art Department:		
Books lent		4,310
Pictures lent		56,555
Lithographs lent		2,230
Meetings in building		290
Attendance at meetings		7,246
Museum attendance		23,543

ANNUAL REPORT

OF THE

Law Department

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

LAW DEPARTMENT

CITY OF NEWARK

FOR THE YEAR 1913

The Mayor and Common Council of the City of Newark:

GENTLEMEN:—As required by the Laws of the State of New Jersey, I hereby render my Annual Report of the legal business of the City of Newark for the year nineteen hundred and thirteen:

During the year 1913 the City has been engaged in a large amount of important litigation. A concise statement of those cases, which have actually reached the stage of litigation, follows. A great many applications for writs have been made during the year and have been successfully resisted.

NEW JERSEY SUPREME COURT.

JOSEPH SCHILLIZZI

vs.

THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK.

On Certiorari.

In this case application was made to the Honorable Francis J. Swayze for a writ of certiorari to review the scavenger contract between the City of Newark and Joseph Marrone. A rule to show cause was granted; upon argument the writ was denied. Afterward, however, application was made to the Supreme Court at Trenton and a writ granted. The case was argued at the November Term, 1913.

NEW JERSEY SUPREME COURT.

JOHN COLLGARRY

vs.

THE BOARD OF STREET AND WATER COMMISSIONERS OF THE CITY OF NEWARK.

On Certiorari.

A writ of certiorari was allowed to review a resolution of the Board of Street and Water Commissioners of the City of Newark, adopted January 1, 1913, discharging certain employees of said Board. After argument decision was rendered in favor of the defendant. The matter was then taken to the Court of Errors, which Court affirmed the decision of the court below.

BOARD OF EQUALIZATION OF TAXES OF NEW JERSEY.

In the Matter of the Appeal of Roman Catholic Diocese of Newark, St. Patrick's Church, from Assessment of Taxes on Property in the City of Newark for the Year 1912.	*On Appeal.*

This matter was argued before the Board and resulted in a confirmation of the assessment.

BOARD OF EQUALIZATION OF TAXES OF NEW JERSEY.

In the Matter of the Appeal of the First Presbyterian Church of Newark from the Assessment of Taxes for the Year 1912.	*On Appeal.*

The local taxing authorities made an assessment upon property of the above-named petitioner, which was vacant property adjoining its church building on Broad Street. It appeared that the church derived an income from this property, and upon that theory it was thought the assessment was good. Upon appeal and argument had, the assessment was set aside.

ESSEX CIRCUIT COURT.

IN THE MATTER OF THE AWARD OF DAMAGES FOR OPENING CLINTON PLACE.	*On Objections of Albert W. Terhune.*

This case was reported in the Annual Report of this Department for 1912. Since that time application has been made to the Circuit Court to confirm the report on the ground that the objector had failed to prosecute his objection. On February 8, 1913, the report was confirmed.

BOARD OF EQUALIZATION OF TAXES OF NEW JERSEY.

IN THE MATTER OF THE APPEAL OF NATIONAL TURN VEREIN FROM THE ASSESSMENT UPON PROPERTY IN THE CITY OF NEWARK.	*On Appeal.*

This was an appeal from an assessment of $32,000 upon property of the above-mentioned petitioner. After argument the assessment was confirmed.

BOARD OF EQUALIZATION OF TAXES OF NEW JERSEY.

In the Matter of the Appeal of the Salvation Army, Inc., from the Assessment on Property in the City of Newark for 1912.

This is an appeal from the assessment of the local taxing board against the Industrial Home of the petitioner in Newark. The appeal was sustained and the assessment ordered cancelled.

IN CHANCERY OF NEW JERSEY.

Between

Hildreth Granite Company

and

The Mayor and Common Council of the City of Newark, et al.

On Bill.

This was an action to enforce a lien on moneys in the hands of the City for work done by the Jersey Paving Corporation. The matter was settled out of Court.

ESSEX CIRCUIT COURT.

JOHN G. WENDEL

vs.

THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK, AND OTHERS.

Action at Law.

This was an action to recover possession of two tracts of land on Springfield Avenue in the City of Newark, owned by the plaintiff, and in which it was alleged the City had an interest because of its claim for unpaid taxes on said property. This matter was settled out of court.

NEW JERSEY SUPREME COURT.

TRUSTEES OF THE FIRST PRESBYTERIAN CHURCH IN NEWARK

vs.

BOARD OF EXCISE COMMISSIONERS OF THE CITY OF NEWARK, ET ALS.

On Certiorari.
Two Cases.

The writs in these cases were granted to review the action of the Board of Excise Commissioners of Newark in granting a license to sell intoxicating liquors at retail in the Kinney Building, said place being within two hundred feet of a church curtilage. The cases were argued at the November Term of the Supreme Court.

ESSEX COMMON PLEAS.

IN THE MATTER OF THE APPLICATION OF JULIA A. DAVIS, WIDOW, FOR COMMUTATION OF COMPENSATION FROM THE CITY UNDER EMPLOYERS' LIABILITY ACT. } *On Petition.*

Henry H. Davis, an employee of the City, was killed while crossing the tracks of the Pennsylvania Railroad Company. He was at the time employed by the City of Newark, and the above action was brought by his widow to secure compensation for his death. The Court held that she was entitled to compensation. The City was insured and the judgment was paid by the Indemnity Company.

ESSEX COMMON PLEAS.

CHARLES F. LUCKEY

vs.

THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK. } *On Petition.*

The petitioner, while in the employ of the Board of Street and Water Commissioners, was injured and brought the above action for compensation. The contention of the City was that at the time of petitioner's injury, the Employers' Liability Act of 1913 did not extend to municipal corporations. The case was tried before Judge Osborne and briefs have been submitted on the question of law. The matter has not yet been decided.

NEW JERSEY SUPREME COURT.

THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK
vs.
STEPHEN KAZINSKI, ET AL.
} *On Certiorari.*

A writ of certiorari was allowed in this case to review an order made by the Essex Common Pleas Court, directing the record of a conviction of Stephen Kazinski in the Second Criminal Court of the City of Newark to be certified to it for review. The case will probably be argued at the February Term, 1914.

NEW JERSEY SUPREME COURT.

WILLIAM F. CLARK
vs.
THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK.
} *Action at Law.*

This suit was commenced to recover salary alleged to be due the plaintiff for services rendered the City in the capacity of a Clerk in the office of the Sealer of Weights and Measures. The case is at issue.

NEW JERSEY SUPREME COURT.

JOHN H. ELY, ET AL.,

vs.

THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK.

Action at Law.

Suit to recover for architect's fees for plans and specifications for the erection of a proposed recreation building on South Canal Street. The case is at issue and will probably be tried at the April Term of Court, 1914.

COURT OF ERRORS AND APPEALS.

THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK

vs.

PENNSYLVANIA RAILROAD COMPANY, ET AL.

In Error to Supreme Court.

In December, 1911, proceedings were instituted by the City in the Supreme Court to recover possession of three tracts of land alleged to be wrongfully occupied by the defendants. The case was tried before Judge Nelson Y. Dungan and a jury, and resulted in a verdict for the City as to tracts 1 and 3 described in the complaint and for the defendants as to tract 2. Both parties have taken the case to the Court of Errors for adjudication. The case has been noticed for argument for the March Term, 1914.

ESSEX CIRCUIT COURT.

BENJAMIN F. C. ROTHWELL, ET AL., *vs.* THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK.	*Action at Law.*

May 6, 1912, proceedings in ejectment were commenced to recover possession of land which had been taken by the City for Adams Street. After notice and argument the summons was set aside as improperly issued. The present suit was commenced December 17, 1913.

NEW JERSEY SUPREME COURT.

THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK *vs.* PUBLIC SERVICE RAILWAY COMPANY.	*On Contract.*

As set forth in the Annual Report of this Department for 1912, this is a suit to recover $300,000, claimed to be due from the defendant to the City under its agreement to pay five per cent. of the gross receipts of its lines from passenger traffic within the City of Newark. Reference to Ralph E. Lum, as Special Master, has been agreed upon and reservation upon reference has been filed.

ESSEX COUNTY BOARD OF TAXATION.

IN THE MATTER OF THE APPEAL OF MT. PLEASANT CEMETERY COMPANY FROM THE ASSESSMENT FOR THE YEAR 1913 ON ITS PROPERTY IN THE CITY OF NEWARK.	*On Petition.*

This case has been argued and a decision will shortly be made.

IN CHANCERY OF NEW JERSEY.

Between BABCOCK & WILCOX CO., *Complainant,* *and* THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK, ET ALS., *Defendants.*	*On Bill, etc.*

This is an action to enforce a lien on moneys in the hands of the City alleged to be due to Jaehnig & Peoples under contract for the erection and construction of the heating apparatus in the laundry building to be used in connection with the City Hospital. This case is still pending.

NEW JERSEY SUPREME COURT.

IDA M. MURPHY

vs.

THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK AND PUBLIC SERVICE RAILWAY COMPANY.

Action at Law.

Action was commenced to recover damages for injuries alleged to have been received by the plaintiff while alighting from a car of the Railway Company in Market Street. The City moved to strike out the complaint as to the City of Newark and an order was made striking out as to the City, but with leave to amend the complaint. A motion to amend the complaint was made before Chief Justice Gummere, but this motion was successfully resisted. The case is still pending.

UNITED STATES DISTRICT COURT.

THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK

vs.

BARBER ASPHALT PAVING COMPANY, ET AL.

On Contract.

This case is at issue and will be tried in April, 1914.

IN CHANCERY OF NEW JERSEY.

Between

THE MAYOR AND COMMON COUNCIL OF THE CITY OF NEWARK

and

NATIONAL SILK DYEING COMPANY AND OTHERS.

} *On Bill, etc.*

This is an attempt to consolidate and take before the Court of Chancery several suits at law which were brought against the City by a number of Silk Dyeing Companies in Paterson, alleging damages for diverting the flow of the Passaic River above the works of the defendants. Application has been made for a rule to show cause why the matter should not be heard in the Court of Chancery. The matter is now awaiting the decision of the Vice-Chancellor on the application for said rule.

There have been a number of applications for writs of certiorari to review assessments and other matters and many other proceedings which have not been reported in full because the Law Department has been successful in resisting such applications.

During the year, there have been 32 suits commenced in the First Criminal Court for violations of City ordinances; this number, of course, does not include numerous suits of a like kind which have been brought in the other courts.

Two important questions which have been raised during the year and which are now awaiting adjudication by the courts are the validity of the Act conferring jurisdiction

upon the Court of Common Pleas to review proceedings had in police courts; the other, the question as to the liability of a city under the Employers' Liability Act of 1911 to pay damages to employees who have been injured in the course of their employment.

From the report of the Assistant City Attorney it appears that during the year there were 166 prosecutions for desertion and neglect and 47 bastardy cases, also 62 prosecutions for violations of the Health Code. The small number of Board of Health prosecutions is due to the fact that most of the evils complained of were remedied before suit was brought.

Respectfully,

HERBERT BOGGS,
City Attorney.

Dated January 2, 1914.

ANNUAL REPORT

OF THE

Overseer of the Poor

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

OVERSEER OF THE POOR

To His Honor, the Mayor and Common Council of the City of Newark, New Jersey:

GENTLEMEN:—I herewith respectfully submit the Annual Report of this department for the year ending December 31st, 1913.

APPLICATIONS RECEIVED FOR OUT-DOOR RELIEF.

January	108	families	applied
February	76	"	"
March	36	"	"
April	30	"	"
May	26	"	"
June	22	"	"
July	29	"	"
August	20	"	"
September	29	"	"
October	27	"	"
November	65	"	"
December	382	"	"
Total	850	"	"

RELIEF DISTRIBUTED.

Month.	No. of Families Relieved.	No. of Bread Tickets Distributed.	Amount of Cash Distributed.
January	742	22,932	$136.00
February	755	22,236	138.00
March	761	24,210	157.50
April	679	20,910	166.00
May	624	20,450	174.50
June	616	18,940	184.00
July	623	20,240	189.75
August	620	19,233	148.50
September	611	18,904	162.00
October	626	20,350	166.00
November	659	19,960	174.50
December	748	23,713	182.00

COAL DISTRIBUTED.

January	967	orders repres't'g	241¾	tons to	967	families
February	1,039	" "	259¾	"	1,039	"
March	1,032	" "	258	"	1,032	"
December	942	" "	235½	"	942	"

NATIVITY OF PERSONS WHO RECEIVED AID DURING THE YEAR ARE CLASSIFIED AS FOLLOWS.

Austria	152	families	representing	635	persons	
Canada	2	"	"	6	"	
England	31	"	"	82	"	
France	4	"	"	12	"	
Germany	231	"	"	640	"	
Hungary	15	"	"	61	"	
Italy	263	"	"	1,049	"	
Ireland	277	"	"	830	"	

Poland	2	families	representing	7	persons
Roumania	4	"	"	16	"
Russia	135	"	"	514	"
Syria	1	"	"	5	"
Switzerland	2	"	"	6	"
Scotland	17	"	"	48	"
United States	481	"	"	1,673	"
Colored	149	"	"	418	"

PERMITS GIVEN FOR ADMISSION TO ALMSHOUSE.

To adults—male	134
To adults—female	34
To children—male	12
To children—female	9

PAUPER BURIALS.

To City Cemetery	396	persons
" Holy Sepulchre Cemetery	13	"
" Woodland Cemetery	4	"
" Hollywood Cemetery	3	"
" St. Mary's Cemetery	2	"
" Glen Ridge Cemetery	1	"
" Evergreen Cemetery	1	"
Total	420	"

CHILDREN WITH THE NEW JERSEY STATE BOARD OF CHILDREN'S GUARDIANS AND EXPENSES INCURRED FOR MAINTAINING THEM.

		Board.	Clothing.	Medical	Total.
January	68 children	$444.68	$83.48	$62.54	$590.70
February	68 "	410.77	88.30	49.03	548.10
March	73 "	452.86	91.71	63.30	607.87
April	70 "	447.67	238.20	32.70	718.57

May	74 children	$446.54	$128.29	$70.10	$644.92
June	70 "	465.24	127.99	109.28	702.51
July	72 "	494.33	75.28	77.66	647.27
August	69 "	433.66	47.25	61.43	542.34
September	71 "	466.39	120.41	53.84	640.64
October	72 "	482.35	144.57	50.79	677.71
November	75 "	478.61	192.02	77.68	748.31
December	77 "	481.12	206.99	35.05	723.16
		$5.504.21	$1,544.49	$743.40	$7,792.10

May Funeral expenses for the burial of Joseph Bubinska $14.00

REDEEMED BY THE CITY.

January	From 57 bakers	20,865	bread tickets
February	" 62 "	25,141	" "
March	" 49 "	20,794	" "
April	" 51 "	21,616	" "
May	" 51 "	21,139	" "
June	" 48 "	20,138	" "
July	" 48 "	17,711	" "
August	" 47 "	19,916	" "
September	" 46 "	16,918	" "
October	" 48 "	20,500	" "
November	" 52 "	19,742	" "
December	" 53 "	21,822	" "

January	From 43 coal dlrs.	1,003	orders rep.	250¾	tons coal
February	" 31 "	649	"	162¼	"
March	" 47 "	1,189	"	297¼	"
April	" 39 "	732	"	183	"
May	" 7 "	83	"	20¾	"
June	" 2 "	32	"	8	"
July	" 3 "	20	"	5	"
October	" 1 "	5	"	1¼	"
December	" 8 "	233	"	58¼	"

CASH EXPENDITURES.

For the care of children with the Board of Children's Guardians			$7,792.10
For the burial of Joseph Bubinska by the Board of Children's Guardians			14.00
252,078	bread tickets	@ $ .05	12,603.90
995	tons coal	@ 6.50	6,467.50
396	graves opened at C'y Cemet'y.	@ 2.50	990.00
36	burial orders	@ 5.00	180.00
34	burial orders	@ 6.00	204.00
229	burial orders	@ 7.00	1,603.00
132	burial orders	@ 8.00	1,056.00
3	Soho burial orders	@ 10.00	30.00
1	Soho burial order	@ 12.00	12.00
150	shrouds for men	@ 1.50	225.00
			$31,177.50

CASH RECEIPTS.

Alimony on hand January 1, 1913			$1,312.75
Alimony collected during		January	2,328.00
"	"	February	1,994.00
"	"	March	2,575.50
"	"	April	2,244.50
"	"	May	2,334.50
"	"	June	2,767.50
"	"	July	3,246.00
"	"	August	2,490.00
"	"	September	2,637.00
"	"	October	2,367.00
"	"	November	2,253.50
"	"	December	2,613.50

Received from the City Treasurer, January	150.00
" " " " " February	150.00
" " " " " March	175.00
" " " " " April	175.00
" " " " " May	175.00
" " " " " June	175.00
" " " " " July	200.00
" " " " " August	175.00
" " " " " September	150.00
" " " " " October	175.00
" " " " " November	175.00
" " " " " December	175.00
Received for Board East Orange Almshouse Inmates	593.50
Received for board Irvington Almshouse Inmates	102.00
Bank interest on alimony deposit	21.72
Refund on pauper burials	70.85
	$34,001.82

CASH DISBURSED.

Alimony paid out during January	$2,475.25
" " " " February	2,074.00
" " " " March	2,120.50
" " " " April	2,305.00
" " " " May	2,325.00
" " " " June	2,829.00
" " " " July	2,563.50
" " " " August	2,965.50
" " " " September	2,651.50
" " " " October	2,996.50
" " " " November	2,214.00
" " " " December	2,593.58
Cash paid out for relief during 12 months	1,978.75

Transporting one feeble-minded person to Vineland	11.00
Carfare to Trenton re. legislative matters	10.00
Carfare for visitors—12 months	22.75
Postage stamps	27.50
Deposited with Comptroller during year	788.07
Alimony unexpended	1,050.42
	$34,001.82

During the year, my department sent out to delinquent husbands on complaint of their wives 1,000 letters summoning them to appear at my office to make proper adjustment of the complaint lodged against them, and at the same time warning them that Court proceedings would be commenced if letter was not adhered to.

Of the 1,000 letters sent out, 406 had the desired effect, 364 were summoned to Court, 150 warrants issued and 80 entered into mutual agreement to pay a certain sum per week. Of the number brought to court a large percentage were convicted and ordered to pay weekly sums ranging from $3.00 to $12.00 per week, while several others were sent to the penitentiary in default of bond.

Bastardy complaints totaling 44 were taken during the year, of this number 37 defendants were tried and convicted, while 7 have not yet been apprehended.

Respectfully yours,

WM. A. BALDWIN,
Overseer of the Poor.

ANNUAL REPORT

OF THE

NEWARK CITY PLAN COMMISSION

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

Newark City Plan Commission

April 30th, 1914.

To the Honorable, the Mayor and Common Council, City of Newark, New Jersey:

GENTLEMEN:—We have the honor to transmit herewith our annual report for the year ending December 31st, 1913.

Following the general lines of work previously suggested, the Commission has issued various reports pertaining to city planning endeavors in the City of Newark. Each of these reports have been filed with you from time to time. In the report entitled "City Planning for Newark" the Commission has embodied a complete summary of all that which has been done by the City Plan Commission since its original appointment on June 1st, 1911. The report further contains a considerable number of recommendations not previously presented, and also an outline of the more important aspects of city planning not yet taken up or only briefly considered, which we propose to follow throughout the ensuing year.

The reports and recommendations issued during the year are as follows:

Sign Report.
Farmers' Market Resolution.
Nye Tract Report.
Trolley Transportation Report.
Romaine Place Report.
Sanford Avenue Heights No. 1 Report.
Oakland Terrace Report.
Meadow Report.
Asylum Tract Report.
City Planning for Newark Report.

Respectfully submitted,

AUSTEN H. MCGREGOR.
FRED'K J. KEER.
JOS. M. BYRNE.
C. W. FEIGENSPAN.
GUSTAVUS STAEHLIN.
D. GROTTA.
J. C. DANA.
RICHARD STOCKTON.

Attest:
ROBERT L. ROSS, *Secretary.*

The Commission has continued substantially the outline of procedure as originally set forth in the preliminary report of the experts issued June 1, 1912. Numerous special reports have been issued from time to time as occasion demanded.

On March 12, 1913, the new city plan law became effective, which altered the previous law in several ways. The Commission, which would formerly have expired on June 1st, was automatically continued until December 31st.

The terms of the Commissioners were changed from one year for each member to three one year terms, three two year terms and three three year terms. At the expiration of each year thereafter three new members were to be appointed by the Mayor for terms of three years each. The number of Commissioners remained the same unless reduced at the discretion of the Mayor. The law further provided that, "All questions concerning the location and architectural design of any work of art, statue or any other memoral within such city, shall be referred to the City Plan Commission for its consideration and report before final action is taken thereon." Also, "All plats or re-plats of any lands within the limits of such city shall be submitted to the City Plan Commission for its recommendation before the same are approved." The limit of the annual appropriation was increased from $10,000 to $25,000.

On March 28, 1913, a report of the experts was submitted to the Mayor and Common Council, suggesting changes in the ordinance regulating the construction and maintenance of projecting street signs. Jurisdiction of sign construction is now vested in both the Building Department and the Board of Street and Water Commissioners. The report of this Commission suggested changes in the

city ordinances and building code whereby jurisdiction would be centralized. A model ordinance was suggested which would regulate all projecting street signs.

On May 19th, 1913, a resolution was forwarded to the Mayor protesting against the action of the Common Council in authorizing the purchase of a site for the Farmers' Market on Mulberry Street immediately south of the Central Railroad of New Jersey.

On May 13, 1913, a report was issued regarding the proposed opening of a large tract of land in the southern portion of the city, known as the Nye Estate. This was the first improvement of its kind submitted, under the new law, for the approval of the City Plan Commission.

On June, 1913, a report on Trolley Transportation was forwarded to the Mayor and Board of Works. This report summarized a very detailed study of the transit situation in Newark which had been in progress for over a year. It exists in manuscript form only and contains, besides 107 pages of reading matter, 9 illustrations, 133 charts and 16 tables. The report was issued primarily as a technical treatise for the use of those engineers who were attempting to solve the transportation question in conjunction with the proposed erection of a trolley terminal in the center of the city. The report was the most exhaustive study which has been made of the situation, and, it is believed, has been of invaluable aid to those who have made a study of the conditions. The value of the report will be greatly increased as time goes on and will form a basis for the eventual solution of Newark's most pressing problem.

On June 19th, 1913, a report was issued concerning the opening of a street to be known as Romain Place.

On July 1st, 1913, a report was issued concerning the opening of a street lay-out to be known as Sanford Avenue Heights No. 1.

On July 1st, 1913, a report was issued concerning the opening of a street to be known as Oakland Terrace.

On November 26th, 1913, a report was issued on the meadow situation, by Expert Goodrich. The report contains a description of the development of manufacturing and commerce in the City of Newark, also the various projects for the development of Newark Bay and the Passaic River, undertaken by the United States Government. Instances of the remarkable progress being made in the harbor development by numerous foreign ports are cited and comparisons made which show how Newark could profitably undertake the development of its bay and meadow lands. The various obstacles to be overcome in developing the meadows are described and a recommendation for joint operation with the Government in harbor development is proposed.

On December 9th, 1913, a report was issued concerning the opening of the tract of land formerly occupied by the Essex County Hospital.

On December 31st, 1913, a report entitled "City Planning for Newark" was issued, which summarized all that which had been accomplished by the City Plan Commission to date. In this report an effort was made to present the advantages and needs of our city in an interesting and forceful manner. The volume represents the results of much study and investigation and should be a foundation for the development of a greater and a better city, a development which the Commission feels is inevitable, and which must be guided if it is to be beneficial.

FINANCIAL STATEMENT YEAR ENDING DECEMBER 31, 1913.

RECEIPTS.

Balance year 1912, $90.86, transferred to contingent.	
Appropriation, Tax Ordinance, 1913	$ 10,000.00
Refund, telephone tolls	13.25
	$ 10,013.25

DISBURSEMENTS.

Secretary	$ 2,000.00
Experts, weekly labor and incidentals	5,431.42
Sundries	1,353.25
Balance	1,228.58
	$ 10,013.25

ANNUAL REPORT

OF THE

SUPERINTENDENT OF BUILDINGS

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

Superintendent of Buildings

Jan. 2, 1914.

To the Honorable, the Mayor and Common Council of the City of Newark, N. J.:

GENTEMEN:—Herewith I beg to submit the following report of the Department of Buildings for the year ending December 31st, 1913.

The monthly reports submitted from this Department and presented to the Common Council give the number of permits, location, time of commencement, names of owners, character of buildings, size of buildings, proposed use and estimated cost of same.

There were three thousand and seventy-five (3,075) permits issued for the erection of structures, at an estimated cost of sixteen million, three hundred and seventeen thousand, nine hundred and seventy-three dollars ($16,317,973.00) in the following manner:

NEW FRAME DWELLINGS (1219).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	2	2	22	0	1	39	6	106	174	48	27	7	587	39	5	154

NEW BRICK DWELLINGS (121).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	1	3	9	3	3	0	3	32	8	26	6	1	11	3	4	8

ALTERATION TO DWELLINGS (470).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	4	13	55	9	15	31	21	60	32	58	32	30	49	30	10	21

ALTERATION TO STORE AND DWELLINGS (399).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	8	27	80	28	21	13	15	19	21	29	12	20	28	35	27	16

WAREHOUSES (142).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	4	21	7	8	3	3	8	12	9	15	5	26	6	8	2	5

STABLES AND SHEDS (191).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	5	7	16	6	6	8	9	16	21	21	3	15	23	13	7	15

STORES AND OFFICES (162).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	11	38	11	28	9	5	8	7	5	8	2	3	10	4	3	10

BUILDINGS MOVED (21).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	0	0	0	0	0	1	1	8	3	1	0	0	3	2	0	2

PUBLIC SCHOOLS (4).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0

ENGINE HOUSES (1).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

CHURCHES AND ALTERATIONS (20).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	0	0	2	0	0	0	0	3	2	2	3	1	1	0	3	3

THEATRES AND ALTERATIONS (18).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	0	3	5	2	1	0	1	2	0	1	0	1	1	0	0	1

GARAGES (202).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	2	10	8	8	4	8	4	45	18	14	13	1	21	4	4	38

FACTORIES (144).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	3	2	4	6	3	2	7	16	16	23	10	26	6	5	6	9

PUBLIC BUILDINGS (1).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

MISCELLANEOUS (451).

Wards.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	18	33	37	31	18	25	32	31	41	58	28	29	24	22	7	17

The following are the estimated expenditures by wards:

First Ward	$ 213,635.00
Second Ward	1,213,499.00
Third Ward	834,270.00
Fourth Ward	1,003,924.00
Fifth Ward	161,720.00
Sixth Ward	572,302.00
Seventh Ward	372,572.00
Eighth Ward	1,736,023.00
Ninth Ward	2,093,610.00
Tenth Ward	772,573.00
Eleventh Ward	425,768.00
Twelfth Ward	762,140.00
Thirteenth Ward	3,184,852.00

Fourteenth Ward	615,199.00
Fifteenth Ward	945,935.00
Sixteenth Ward	1,409,951.00
Total	$16,317,973.00

For which we have received the sum of twenty-eight thousand, five hundred and seventy-three dollars ($28,573.00) in fees, the same having been paid to the Comptroller as provided by ordinance.

The expenses for the year ending December 31st, 1913, including salaries, automobile and equipments, also all incidental expenses, will appear in the Auditor's report.

The Department consists of a superintendent, two clerks, fourteen inspectors, three electrical inspectors and one stenographer.

During the past year there has been erected and permits have been issued for the following: Two thousand, four hundred and sixty-six (2,466) frame structures; six hundred and ninety-seven (697) brick structures; one hundred and two (102) terra cotta and concrete structures; six (6) steel skeleton structures and two hundred and ninety-five (295) sheet metal structures, making a total of three thousand, five hundred and sixty-six (3,566) structures, the same having been tabulated under their respective ward heads.

The total number of inspections made during the year was forty thousand, five hundred and eighty (40,580) averaging about three thousand, three hundred and eighty (3,380) inspections per month.

In addition to these, there were four hundred and seventy-six (476) inspections made on special work, also three thou-

sand, five hundred and twenty-five (3,525) house to house inspections and numerous inspections made by the Superintendent.

During the past year there was expended for

New Work	$15,227,934.00
Alterations and Repairs	1,090,039.00
Total	$16,317,973.00

Sub-divided as follows:

Frame Dwellings	$ 7,856,895.00
Brick Dwellings	1,378,225.00
Factory Buildings	710,060.00
Public Buildings	858,062.00
Miscellaneous Buildings	5,514,731.00
Total	$16,317,973.00

Frame Structures	$ 8,252,967.00
Brick Structures	5,863,155.00
Concrete and Terra Cotta Structures	535,768.00
Steel Skeleton Structures	1,560,062.00
Sheet Metal Structures	106,021.00
Total	$16,317,973.00

The following is a summary of the different kinds of buildings erected in the City of Newark, from January 1st to December 31st, 1913:

Frame Dwellings	1,219
Brick Dwellings	121
Alterations to Dwellings	470
Alterations to Stores and Dwellings	399

Warehouses and Lofts	142
Stables and Sheds	191
Stores and Offices	162
Buildings Moved	21
Public Schools	4
Engine House	1
Churches and Alterations	20
Theatres and Alterations	18
Garages	202
Factories	144
Public Buildings	1
Moving Picture Theatres	38
Department Stores	1
Hospitals (additions)	2
Hotels	1
Office Buildings	2
Two-story Frame Dwellings	433
Three-Story Frame Dwellings	888
Two-story Brick Dwellings	15
Three-story Brick Dwellings	16
Apartment Houses	60
Tenement Houses	911
Miscellaneous Buildings	451

A comparison of the foregoing figures with those of all preceding years will show that 1913 was the year of greatest building activity in the history of the city and it exceeded 1912 by more than 33 1/3 per cent., the figures being: 1912, $11,628,358.00; 1913, $16,317,973.00.

One of the chief causes for this large increase was the going into effect of the extended fire limits on the first of January, 1914, which led to a rush to obtain permits to erect frame buildings in sections of the city which, after the first of the new year, would be included in the fire limits and

as a result the permits for frame buildings considerably exceeded those for other classes of construction. This condition, however, will, in my judgment, no longer obtain, for the extension of the fire limits has doubled the area within which the erection of new frame buildings is prohibited and naturally from year to year the percentage of brick and other classes of non-combustible construction will steadily increase while that for frame construction will correspondingly decrease.

The passage by the Common Council of the ordinance extending the fire limits before referred to was one of the most important and beneficial accomplishments of the Department during the year. This ordinance was passed at the July meeting of the Council, but it was provided that it would not go into effect until January 1st, 1914, which proviso gave ample time for the securing of permits for frame buildings within the prohibited areas and which permits are good, under the Building Code, for one year from date of issue thus no hardship was worked upon those who had plans for or contemplated the erection of frame buildings within the effected areas.

I look for great results from the extension of the fire limits for, with the exception of the suburban and outlying sections, practically the entire city, including the main thoroughfares throughout, is now within the fire limits, and the city will be relieved from the reproach of being styled in insurance circles the "Frame City" and of giving too great latitude to hazardous forms of construction and it will be placed in the vanguard along with those progressive cities that are making great strides forward in the matters of substantial construction and fire prevention.

It is gratifying to note, however, in this connection that notwithstanding the comparatively small area included in

the fire limits up to this date, the fire risks of Newark are rated the lowest in the state, which fact reflects most creditably upon the good work of the Fire Department and the safe and substantial construction demanded by this Department.

As recommended in my last report, the Council passed an amendment to the Code which has the effect of prohibiting the erection of the "Fore and Aft" Tenement, except on corner lots where they are not objectionable as each apartment in the latter case has a frontage on the street and in case of fire each apartment can be reached easily by the firemen. This latter requirement, by the passage of the amendment, now applies to all frame tenements.

In conjunction with the Board of Works, steps have at last been taken looking toward the regulation of signs projecting over the street beyond the building line, but as a result of several conferences participated in by the Board of Works, the Law Department and this Department, it was concluded that there was not sufficient power under existing laws to provide for this regulation so the Law Department was requested to draw a bill for presentation to the next Legislature that would place in the city the necessary power to bring about this much sought reform. I trust that this legislation will be secured and a suitable ordinance passed as soon as possible thereafter.

The inspections of existing buildings which are being made by the inspectors in addition to their routine work have continued throughout the year and have now reached a total of 13,990 and one of the results of these inspections has been the erection in 1913 of more than two hundred fire escapes or similar means of additional exits.

Besides fire escapes, rear stairs, etc., provided under this system, many dangerous buildings have been made safe and

many betterments and improvements both as regards stability and fire prevention has been brought about.

During the year 214 old buildings have been removed under the direction of the Department. Most of these buildings were old and dilapidated and dangerous and were removed for that reason and others were demolished to make way for the erection of new buildings. This work of demolition is carefully watched by the Department in order that accidents may be avoided and that the annoyance and inconvenience which necessarily accompanies this work may be made as little as possible.

Violations of the Building Code were considerably less than last year notwithstanding the large increase of building. This fact is due largely one the one hand to the better knowledge of the Building Code and on the other to the watchfulness and energy of our inspectors in the performance of their duties. All serious violations, which were few, have been removed, the others have been removed, adjusted or are in course of adjustment.

Experience has shown that some of the inspection districts, especially in the growing western section of the city, are too large, it being very difficult for one inspector to cover properly the great amount of work he has to do, and it is my intention to carve a new district from the western district and request the appointment of an additional inspector for this district.

While on this subject, I cannot again urge too strongly the increasing of the salaries of the inspectors and office force of the Department. As compared with other branches of the city government, they are underpaid and when their training, the importance of their work and the fact that the Department yields considerable revenue, are considered, it

seems to me that substantial salary increases are justified and I trust they will be granted as speedily as possible.

The Department co-operates with the Bureau of Combustibles and Fire Risks of the Fire Department in the inspection and regulation of theatres and motion picture theatres and the work is done with complete harmony and care and attention are given by both Departments for the proper safeguarding of life and property in these buildings. During 1913, I have approved 59 license applications for indoor motion picture theatres and 52 applications for open air motion picture theatres, 22 dance hall applications and 2 lodging house applications. Weekly inspections are made by the Department of all theatres and motion picture theatres.

It is with pardonable pride that I call attention to the report of the City of Newark of the Committee on Fire Prevention of the National Board of Fire Underwriters. It is indeed most gratifying to have an outside critical body of high standing such as this, state in its conclusions that the Building Department is well organized, the laws governing new construction are properly enforced and records are well kept.

Early in the year an automobile was provided for the Department and the horses and carriages previously used were dispensed with. The change has been a decided benefit, it now being possible to cover more than twice the ground in the same time than when horses were employed and the automobile is most valuable in cases of emergency. The expense of maintaining the automobile is about the same as the cost of maintenance of the horses and carriages.

The Electrical Bureau, attached to the Department, continues to do most excellent work, the volume of which is constantly increasing because of the almost universal growth

of the use of electricity for light, heat and power purposes. The personnel of the bureau is high class and the Chief Inspector, Mr. John J. Gaffney, is an official who not only has a great knowledge of the practical application of electricity, but one who performs his duties in a most able and conscientious manner. Of late the condition of his health has been poor, I regret to say, but he continues notwithstanding to give his unfailing attention to the conduct of the bureau.

In conclusion, I beg to thank you gentlemen, the Committee on Construction and Alterations of Buildings, the various municipal officials, the Department staff and the citizens in general for the courtesy and consideration exercised in dealing with the Department and for the good relations and feelings that exist on all sides.

Respectfully submitted,

WM. P. O'ROURKE,

Superintendent of Buildings.

ANNUAL REPORT

OF THE

Board of Commissioners of Assessments

FOR LOCAL IMPROVEMENTS

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

Board of Commissioners of Assessments

FOR LOCAL IMPROVEMENTS

WILLIAM DIMOND, *President.*

JOSEPH HEISLER, *Commissioner.*

ADOLPH HOLZNER, *Commissioner.*

NEWARK, N. J.

To the Honorable, the Mayor and Common Council of the City of Newark, N. J.:

GENTLEMEN:—In accordance with the provisions of the ordinance of the City of Newark, the Board of Commissioners of Assessments for Local Improvements hereby submit the annual report for the year ending December 31, 1913.

PAVINGS AND REPAVINGS.

	Total Cost	Amt. Assessed on Property	Amt. Paid by City of Newark
Hobson Street Paving, from Hawthorne Avenue to Shaw Avenue	$ 15,771.80	$ 15,090.00	$ 681.80
Isabella Avenue Paving, from South Orange Avenue to Plymouth Street	11,180.70	10,410.85	769.85
Smith Street Paving, from South Orange Avenue to Silver Street	11,858.50	11,339.30	519.20
Highland Avenue Paving, from Bloomfield Avenue to Second Avenue	8,351.50	7,400.34	951.16
Tichenors Lane Paving and Repaving, from Murray Street to Parkhurst Street	5,506.40	5,107.66	398.74
Nye Avenue Paving, from Clinton Place to City Line	21,350.70	16,979.34	4,371.36
Belmont Avenue Paving and Repaving, from Watson Avenue to Meeker Ave	3,899.30	3,072.61	826.69
Hillside Avenue Paving and Repaving, from Watson Avenue to Meeker Ave	3,890.50	3,166.14	724.36
Jelliff Avenue Paving and Repaving, from Watson Avenue to Meeker Ave	3,692.30	3,167.56	524.74
McWhorter Street Paving and Repaving { from Elm St. to Chestnut St. / from Johnson St. to Vesey St. }	22,771.40	17,839.44	4,931.96
Nutria St. So. Paving, from Branford Place northerly a distance of about 100 ft.	740.30	650.14	90.16
South Nineteenth St. Paving, from Springfield Ave. to Fifteenth Ave	37,969.80	35,595.56	2,374.24
Elder Place Paving, from Camp Street southerly about 291 ft.	2,025.60	1,903.00	122.60
Badger Avenue Paving and Repaving, from Hawthorne Ave. to Meeker Ave	12,937.20	11,794.44	1,142.76
Johnson Avenue Paving, from Watson Avenue about 315 ft. southerly	1,991.60	1,865.34	126.26
Leslie Street Paving, from Hawthorne Avenue to Shaw Avenue	16,212.90	15,321.63	891.27
Richelieu Terrace Paving, from South Orange Avenue to Helen Place	12,945.10	11,764.45	1,180.65
South Nineteenth St. Paving, from So. Orange Ave. northerly to City Line	25,822.30	23,681.58	2,140.72
Eleventh Avenue Paving, from South Eleventh St. to So. Twelfth St	3,173.10	1,961.05	1,212,05
South Twelfth Street Paving, from Avon Avenue to Springfield Avenue	14,022.80	13,292.24	730.56
West Kinney St. Repaving, from Washington Street to High Street	8,104.50	6,574.80	1,529.70
Cabinet Street Paving { from Norfolk St. to Camden St. / from Camden St. to So. Sixth St. }	29,285.30	24,384.24	4,901.06
Frelinghuysen Ave. Repaving, from Dayton St. to Union-Essex City Line	94,735.62	78,030.17	16,705.45
Market St. Repaving, from E. side Railroad Pl., east of P. R. R., to Bowery St.	52,992.00	37,262.94	15,729.06
Newark Street Repaving, from Bank Street to Central Avenue	18,278.85	14,680.65	3,598.20
Elizabeth Av. Paving and Repaving, from W. Newark Br. P. R. R. to City Line	70,640.05	65,946.13	4,693.92
New York Avenue Paving, from Garrison Street to Jabez Street	5,331.85	2,929.20	2,402.65

PAVINGS AND REPAVINGS—Continued.

	Total Cost	Amt. Assessed on Property	Amt. Paid by City of Newark
Runyon Street Paving, from Elizabeth Avenue to easterly side Seymour Ave.	26,777.40	24,901.59	1,875.81
Adams Street Paving, from Chestnut Street to South Street	15,131.65	12,298.23	2,833.42
Ashland Street Paving, from Fourteenth Avenue to South Orange Avenue	5,308.55	5,133.86	174.69
Dickerson Street Paving, from Norfolk Street to First Street	23,387.25	19,823.40	3,563.85
First Avenue Paving, from Third Street to Bloomfield Avenue	6,913.30	5,670.09	1,243.21
First Street Paving, from Orange Street to Morris Canal	10,978.15	9,706.56	1,271.59
St. Paul Avenue Paving, from South Orange Ave. 500 ft. south of Cliff St.	11,659.10	10,938.88	720.22
Alpine Street Paving, from South Eighteenth St. to South Nineteenth St	2,900.50	1,561.20	1,339.30
Halsey Street Repaving, from Camfield Street to Market Street	3,885.90	3,118.62	767.28
Leonard Place Paving, from Plane Street about 188 feet easterly	1,102.40	1,006.38	96.02
Christie Street Paving, from Bonykamper Avenue to Ferry Street	15,001.20	13,725.12	1,276.08
Bonykamper Avenue Paving, from Hawkins Street to Christie Street	11,134.30	9,047.80	2,086.50
Spruce Street Repaving, from Washington Street to High Street	11,773.40	9,399.20	2,374.20
Fourth Street Paving, from Park Avenue to Sixth Avenue	8,462.95	7,224.84	1,238.11
Coeyman Street Paving, from Mt. Prospect Avenue to Clifton Avenue	2,419.70	1,855.20	564.50
Merchant Place Paving, from Merchant Street easterly about 358 ft	2,684.25	2,037.00	647.25
South Twentieth Street Paving, from Springfield Avenue to Sixteenth Ave	30,067.80	29,148.23	919.57
Woodside Avenue Paving, from Elwood Avenue to Delavan Avenue	8,298.20	7,550.68	747.52
Dewey Street Paving, from Hawthorne Avenue to Shaw Avenue	20,495.35	19,832.17	663.18
Jefferson Street Paving, from Malvern Street to South Street	8,290.00	6,593.44	1,696.56
Jeffery Place Paving, from Bergen Street to Chadwick Avenue	2,380.45	1,560.00	820.45
Totals	$744,533.77	$643,343.29	$101,190.48

SEWERS.	Total Cost	Amt. Assessed on Property	Amt. Paid by City of Newark
Frelinghuysen Ave. Sewer, from Foster St. for a distance of about 750 ft. so'ly	$ 860.70	$ 574.40	$ 286.30
Hansbury, Keer and Grummon Ave. Sewers, from Elizabeth Ave. 60 ft. west of Bergen St.	3,792.40	3,792.40	.....
Montrose St. Sewer, from South Orange Line southerly to Cameron Road	1,806.50	1,806.50	.....
Salem Street Sewer, from South Orange Avenue southerly about 625 ft.	1,163.35	1,163.35	.....
Broad St. Sewer, from Rector St. to Central Ave.	1,893.70	1,077.52	816.18
Halsey St. Sewer, from Academy St. to Morris Canal	577.80	319.11	258.69
North Thirteenth St. Sewer, from terminus of present sewer about 300 ft. south of Second Ave. to Third Ave.	1,370.00	1,370.00	.....
Delavan Avenue Sewer, from Summer Avenue to Woodside Avenue	1,023.10	636.78	386.32
Ferdinand Street Sewer, from Grove Street to South Twentieth Street	608.60	608.60	.....
North Twelfth Street Sewer, from Sixth Avenue to Seventh Avenue	1,858.30	1,858.30	.....
Weston Avenue Sewer, from Frelinghuysen Ave. to Pennsylvania R. R.	1,550.25	1,405.04	145.21
First Ave. and Roseville Ave. Sewers { from No. Tenth St. to Roseville Ave. / from Second Ave. to Bloomfield Ave. }	4,092.50	3,975.63	116.87
Irvington-Newark Storm Water Sewer	17,357.35	17,357.35	.....
South Thirteenth St. Sewer, from Fifteenth Avenue to Sixteenth Avenue	1,331.10	1,331.10	.....
Gold Street Sewer, from Jacob Street to Blum Street	655.20	400.00	255.20
Woodside Avenue Sewer, from terminus present sewer south of Elwood Ave. to Delavan Ave.	1,450.30	1,243.18	207.12
Jay Street Sewer, from Dickerson Street to Central Avenue	830.90	232.00	598.90
Alpine Street Sewer, from Milford Avenue to Johnson Avenue	419.30	200.00	219.30
Duryee Street Relief Sewer	48,796.40	33,336.80	15,459.60
Totals	$91,437.75	$72,688.06	$18,749.69

GRADING, CURBING AND FLAGGING.	Total Cost	Amt. Assessed on Property	Amt. Paid by City of Newark
Clifton Avenue G., C. & F. from Abington Avenue to Second Avenue	$ 7,312.00	$ 7,312.00	$.....
Willoughby Street G., C. & F. from Lyons Avenue to St. James Place	3,652.80	3,652.80	.....
Aldine Street G., C. & F. from Lyons Avenue to intersection of Clinton Place and Edmonds Place	6,899.70	6,899.70	.....
Fourth Street G., C. & F. from Third Avenue to Abington Avenue	11,278.10	11,278.10	.....
Vernon Avenue Flagging from Nairn Place westerly about 205 feet	556.50	506.26	50.24
Mead Street G., C. & F. from Silver Street to Ocean Avenue	2,720.75	2,720.75	.....
Clinton Place Flagging { from Randolph Street to Hawthorne Avenue / from Nye Avenue to Renner Avenue / from Hawthorne Avenue to Renner Avenue }	4,194.30	3,603.12	591.18
Grafton Avenue G., C. & F. from Summer Avenue to Washington Avenue	6,233.90	5,683.48	550.42
Second Avenue G., C. & F. from Third Street to Roseville Avenue	6,308.20	6,216.40	91.80
Third Street G., C. & F. from Bloomfield Avenue to intersection of Third Avenue and Morris Canal	3,983.20	3,658.25	324.95
South Twentieth Street G., C. & F. from Clinton Avenue to Springfield Avenue.	10,725.20	10,725.20	.....
Clifton Avenue Flagging from Abington Avenue to Berkeley Avenue	651.30	651.30	.....
Christie Street Flagging from Bonykamper Avenue to Ferry Street	1,255.55	1,255.55	.....
Totals	$65,771.50	$64,162.91	$1,608.59

OPENING BENEFITS.

Salem Street Opening, from about 568 ft. south of So. Orange Avenue to Rockland Terrace	$ 5,908.60	$ 5,908.60	$.....
Woodside Avenue Opening, from Montclair Avenue to Verona Avenue	20,725.75	17,695.16	3,030.59
Clay Street and Carlisle Place Opening and Widening	100,031.00	57,525.65	42,505.35
South Thirteenth Street Opening { from Sixteenth Av. northerly to Peat St. / from Peat St. northerly about 199.65 feet }	8,000.80	7,469.15	531.65
McClellan Street Opening, from present terminus at P. R. R. to Evergreen Ave.	4,774.30	4,774.30	.....
Totals	$139,440.45	$93,372.86	$46,067.59

OPENING DAMAGES.

	Total Cost
McClellan Street Opening, from present terminus at P. R. R. to Evergreen Avenue	$ 4,255.00
Woodside Avenue Opening, from Montclair Avenue to Verona Avenue	20,246.00
North Sixth Street Opening, from Old Road to Bloomfield northerly about 215 feet	1,000.00
Custer Avenue Opening and Widening, from Chadwick Avenue to Seymour Avenue	275.00
Clifford Street Opening, from Jefferson Street to Adams Street	.05
First Avenue Opening, from Bloomfield Avenue to North Tenth Street	.30
Harper Street Opening, from Avenue C to Tompkins Point Road	.05
Totals	$25,776.40

The total amount of assessments made for paving and repaving was $744,533.77, of which amount $643,343.29 was assessed upon the properties benefited, and the balance, $101,190.48, was paid by the City of Newark. The total amount of assessments made for sewers was $91,437.75, of which amount $72,688.06 was assessed upon property benefited, and the balance, $18,749.69, was paid by the City of Newark.

The total amount of assessments made for grading, curbing and flagging was $65,771.50, of which amount $64,162.91 was assessed upon property benefited, and the balance, $1,608.59, was paid by the City of Newark.

The total amount of assessments made for the opening of streets was $139,440.45, of which amount $93,372.86 was assessed upon property benefited, and the balance, $46,067.59, was paid by the City of Newark.

The total amount of damages awarded for the opening of streets was $25,776.40.

The grand total amount of assessments of benefits made during the year 1913 is $1,041,183.47.

The grand total amount of damages awarded during the year 1913 is $25,776.40.

Respectfully submitted,

WILLIAM DIMOND,

President of the Assessment Commission.

COMMISSIONERS, 1914:

WILLIAM DIMOND, *President.*

JOSEPH HEISLER. ADOLPH HOLZNER.

OLIVER B. BURDETT, *Clerk and Surveyor.*

CHARLES A. REILLY, *Assistant.*

TWENTY-EIGHTH

ANNUAL REPORT

OF THE

Board of Fire Commissioners

NEWARK, N. J.

COMBINING REPORTS OF

CHIEF ENGINEER, SUPERINTENDENT OF REPAIRS, DEPARTMENT VETERINARIAN, DEPARTMENT SURGEON, SUPERINTENDENT OF FIRE ALARM TELEGRAPH, INSPECTOR OF COMBUSTIBLES AND FIRE RISKS DEPARTMENT CHAPLAINS AND NEWARK PAID FIRE DEPARTMENT PENSION FUND

For the Year Ending December 31, 1913

INCORPORATED, 1836

TWENTY-EIGHTH ANNUAL REPORT

OF THE

Board of Fire Commissioners

OFFICE OF THE BOARD OF FIRE COMMISSIONERS,

CITY HALL.

NEWARK, N. J., January 1st, 1914.

To His Honor, the Mayor, and the Common Council of the City of Newark, N. J.:

GENTLEMEN: In pursuance of an Act of the Legislature, whereby the Board of Fire Commissioners was created, and in conformity with other statutes applicable thereto, we have the honor to present to you herewith the Twenty-eighth Annual Report of the Fire Department in detail.

A synopsis of the operations of the several branches of the service is included, together with recommendations by the Chief Engineer and those in charge of the various bureaus under our jurisdiction. General information concerning the workings of the department is also embodied herein.

Respectfully submitted,

WILLIAM A. WEBER, *President.*
THOS. E. BURKE,
MATTHIAS STRATTON,
FRANK LAGAY,
Commissioners.

BOARD OF COMMISSIONERS

OF THE

NEWARK FIRE DEPARTMENT

For the Year 1913.

MEMBERS.

WILLIAM A. WEBER, *President,*
Term expires January 1st, 1915.

THOMAS E. BURKE,
Term expires January 1st, 1915.

MATTHIAS STRATTON,
Term expires January 1st, 1915.

FRANK LAGAY,
Term expires January 1st, 1915.

SECRETARY.

CHARLES S. SMITH,
Residence, 46 Hansbury Avenue.

CLERK

GEORGE M. SANDERS,
Residence, 755 Hunterdon Street.

STENOGRAPHER.

JOHN W. A. EIMESS,
Residence, 595 South Seventeenth Street.

OFFICE ASSISTANT.

IRVING R. POTTS,
Residence, 135 Madison Avenue.

CHIEF ENGINEER.

PAUL J. MOORE,
Office, Fire Headquarters, City Hall.

DEPUTY CHIEFS.

M. P. A. McDERMITT,
Located at Engine House No. 6.

JOHN J. TOWEY,
Located at Engine House No. 1.

BATTALION CHIEFS.

ROBERT F. MORGAN,
Located at Engine House No. 5.

WILLIAM EXALL,
Located at Engine House No. 14.

HERMAN SCHWEICKHARDT,
Located at Truck House No. 5.

GEORGE F. LYNCH,
Located at Truck House No. 2.

DENIS GUIDERA,
Located at Truck House No. 3.

SUPERINTENDENT OF FIRE ALARM TELEGRAPH.
ADAM BOSCH,
Stationed at Central Office, City Hall.

ASSISTANT SUPERINTENDENT OF FIRE ALARM TELEGRAPH.
CHARLES WHITTEMORE,
Stationed at Central Office, City Hall.

SUPERINTENDENT OF REPAIRS.
CHARLES A. CLYMER,
Stationed at Repair Shop.

INSPECTOR OF COMBUSTIBLES AND FIRE RISKS.
C. ALBERT GASSER,
Office, Fire Headquarters, City Hall.

ASSISTANTS TO INSPECTOR OF COMBUSTIBLES AND FIRE RISKS.
JAMES L. JENKINSON,
MARTIN J. KOPPE,
THOMAS M. GUNNING,
FREDERICK HERZIG,
THOMAS FAGAN,
ROY FAITOUTE, *File Clerk.*

DEPARTMENT SURGEON.
HUGH M. HART,
Residence, 300 Mt. Prospect Avenue.

VETERINARY SURGEON.
JAMES T. GLENNON,
Residence, 27 Clay Street.

CHAPLAINS.
REV. JAMES C. HOWARD,
Residence, 42A James Street.

REV. MICHAEL P. CORCORAN,
Residence, 11 Gray Street.

STANDING COMMITTEES.

APPARATUS AND REPAIRS.
Commissioners STRATTON, BURKE, LAGAY.

APPLICATIONS, APPOINTMENTS AND TRANSFERS.
Commissioners STRATTON, BURKE, LAGAY.

BUILDINGS.
Commissioners BURKE, STRATTON, LAGAY.

COMBUSTIBLES AND FIRE RISKS.
Commissioners BURKE, STRATTON, LAGAY.

FINANCE.
Commissioners STRATTON, LAGAY, BURKE.

HORSES, HARNESS AND FORAGE.
Commissioners LAGAY, STRATTON, BURKE.

RULES.
Commissioners BURKE, STRATTON, LAGAY.

PRINTING AND STATIONERY.
Commissioners BURKE, LAGAY, STRATTON.

SALARIES.
Commissioners LAGAY, BURKE, STRATTON.

SUPPLIES.
Commissioners LAGAY, BURKE, STRATTON.

TELEGRAPH.
Commissioners LAGAY, STRATTON, BURKE.

THEATRES, PUBLIC HALLS AND SCHOOLS.
Commissioners STRATTON, LAGAY, BURKE.

President is ex-officio member of all committees.

CHIEF ENGINEER'S REPORT

CHIEF ENGINEER'S REPORT

OFFICE OF THE CHIEF ENGINEER,

CITY HALL.

NEWARK, N. J., January 1st, 1914.

To the Honorable, the Board of Fire Commissioners of the City of Newark, N. J.:

GENTLEMEN:—I have the honor, as Chief Engineer, to submit my annual report of the conditions and operations of the Fire Department of this city, under your control, for the year 1913.

The total manual force of the department at the close of the year consisted of four hundred and thirty-one men, distributed as follows:

One Chief Engineer.
Two Deputy Chiefs.
Five Battalion Chiefs.
One Secretary.
One Clerk.
One Stenographer.
One Office Assistant.
One Department Surgeon.
One Veterinarian.
Two Chaplains.
One Inspector of Combustibles and Fire Risks.
Five Assistants to the Inspector of Combustibles and Fire Risks.

One File Clerk.
Twenty-five Captains of Engine Companies.
Twenty-five Lieutenants of Engine Companies.
Nine Captains of Hook and Ladder Companies.
Nine Lieutenants of Hook and Ladder Companies.
One Captain of Searchlight Company.
One Captain of Chemical Engine Company.
One Lieutenant of Chemical Engine Company.
One Captain of Water Tower Company.
One Lieutenant of Water Tower Company.
One Captain of Reserve and Supply Company.
One Lieutenant of Reserve and Supply Company.
Three hundred and two Firemen attached to the several Companies.
One Superintendent of Fire Alarm Telegraph.
One Assistant Superintendent of Fire Alarm Telegraph.
One Foreman of Linemen.
Four Linemen.
Seven Operators at Central Office, Fire Alarm Telegraph.
One Superintendent of Repairs.
One Inspector of Apparatus.
Six Assistants to the Superintendent of Repairs.
One Carpenter.
One Blacksmith.
One Janitor.
Six Stablemen.

PENSION ROLL.

F. W. Sullivan.
W. H. Whittemore.
Asa C. Mott.
William W. Kane.
James P. Donnelly.
Mrs. Emily Kinsey.
Mrs. Annie M. Brown.

APPARATUS.

One extra, first-sized steam fire engine.
Two first-sized steam fire engines.
Five extra, second sized stea mfire engines.
Ten second-sized steam fire engines.
One extra, third-sized steam fire engine.
One third-sized steam fire engine.
Two hose wagons, tenders to engines.
Twenty combination chemical engines and hose wagons.
Six City hook and ladder trucks.
Two American-La France Aerial Hook and Ladder Trucks.
One Champion Water Tower.
Three gasoline, motor-driven fire pumping engines.
One gasoline, motor-driven combination chemical car.
One gas-electric, motor-driven aerial hook and ladder truck.
One motor-driven searchlight car.
Three automobiles for officers.
One automobile for telegraph department.
One automobile for repair shop.
One automobile for Commissioners.
Five buggies for use of Battalion Chiefs.
One buggy for Inspector of Apparatus.
One buggy for Superintendent of Fire Alarm Telegraph.
One wagon for telegraph department.
Twenty-four exercise wagons.

RESERVE APPARATUS.

Four steam fire engines.
One aerial hook and ladder truck.
One City hook and ladder truck.
Three hose wagons.

One combination chemical engine and hose wagon.
Two supply wagons.
One buggy.

HARNESS.

Thirty-two sets three-horse swinging harness.
Twenty-four sets two-horse swinging harness.
Eight sets one-horse swinging harness.
Three sets one-horse harness.

RESERVE HARNESS.

One set three-horse harness.
Three sets two-horse harness.
Three collars.
Ten summer bridles.

HORSES.

The horses in the department number one hundred and fifty-two, distributed as follows:

For engine service	62
For hose wagon service	40
For hook and ladder service	24
For chemical engine service	2
For water tower service	3
For battalion chiefs' use	5
For supply wagon service	4
For fire alarm telegraph service	2
In reserve	10
Total	152

HOSE.

There is in service in the department at the present time fifty-three thousand four hundred and fifty feet of two and one-half inch cotton-covered hose, eight hundred and fifty feet of three-inch cotton-covered hose and five thousand and sixty-five feet of three-quarter inch chemical hose, in good condition. During the year five thousand five hundred feet of two and one-half inch cotton-covered hose was purchased, also one thousand feet of three-quarter inch chemical hose.

RESERVE HOSE.

There is in reserve two thousand five hundred and fifty feet of two and one-half inch cotton covered fire hose and four hundred and fifty feet of three-quarter inch chemical hose.

GENERAL SUMMARY OF RECEIPTS AND DISBURSEMENTS.

The amounts of money credited to the accounts of the Fire Commissioners by the Common Council were as follows:

RECEIPTS.

By Tax Ordinance	$623,200.00
By Tax Ordinance, supplemental	78,500.00
By Contingent Account	3,543.94
Receipts from Bureau of Combustibles	2,843.00
Receipts from Miscellaneous Sources	1,895.28
	$709,982.22

DISBURSEMENTS.

Pay Roll, active members	$555,450.71
Pay Roll, retired firemen and pensioned widows	4,025.00
Building Repairs	10,529.00
Forage	19,990.41
Horses	3,925.00

Horseshoeing		8,207.78
Horse Medicine		693.61
Clipping Horses		277.60
Harness Repairs		1,438.57
Supplies		10,071.48
New Apparatus		32,010.39
Apparatus Repairs		10,947.44
Fire Department Implements		5,328.48
Fire Hose		5,600.00
Chemical Hose		450.00
Fuel		9,554.13
Engine Coal		587.27
Water		498.90
Light		4,891.42
Ice		787.05
Disinfectant		37.50
Furniture and Bedding		3,688.54
Telegraph Department:		
Signal Boxes	$2,500.00	
Gongs	745.00	
Aerial Wire	897.51	
Underground Cable	780.25	
General Supplies	1,550.54	
		6,473.30
Telephone Service		2,571.15
Pension Fund		4,033.79
Printing and Stationery		2,421.01
Advertising		922.27
Insurance		3,267.28
Ambulance Hire		50.00
Sundries		1,253.14
		$709,982.22

FIRES AND ALARMS.

There were, during the year 1913, one thousand five hundred and sixty-seven fires and alarms of all classes, an increase of eighty-five over the year 1912. There were nineteen second alarms, four third alarms and one fourth

alarm, and three hundred and fifty-four still alarms. The latter were attended to by members of the department without calling for any service on the part of the telegraph system.

PENSION FUND CONTRIBUTIONS.

The following donations to the Pension Fund are thankfully acknowledged:

Rev. James C. Howard	$ 7.00
Robinson-Roders Co	50.00
American Transformer Co	10.00
Anonymous	.25
Anonymous	25.00
	$92.25

HYDRANTS AND WATER SUPPLY.

During the year sixty-six new hydrants were erected in different sections of the city, and the high pressure water system was extended through the addition of thirty-seven hydrants. The total number of hydrants now in use throughout the city is three thousand three hundred twenty-five.

LOW SERVICE.

Month	No.	LOCATION	Dia.	Hyd.	Stops
Jan.	1	S. E. cor. of Broad and Franklin Sts	6″	1	1
	2	N. E. cor. of Lafayette and Broad Sts	6″	1	1
April	3	S. E. cor. of Grant and Broad Sts	6″	1	1
	4	Broad St., east side, bet. 8th Ave. and Clay St.	6″	1	1
	5	Christie St., e. s., bet. Ferry St. and Bonykamper Ave	6″	1	1

Month	No.	LOCATION	Dia.	Hyd.	Stops
April	6	N. E. cor. of Bonykamper Ave. and Christie St.	6″	1	1
	7	N. E. cor. of Broad and Vanderpool Sts.	6″	1	1
	8	N. E. cor. of King and Broad Sts.	6″	1	1
	9	N. E. cor. of Emmet and Broad Sts.	6″	1	1
	10	S. E. cor. of Thomas and Broad Sts.	6″	1	1
May	11	Grafton Ave., n. s., bet. Washington and Summer Aves.	6″	1	1
	12	S. E. cor. of Broad St. and Park Pl.	6″	1	1
	13	S. E. cor. of Broad and Rector Sts.	6″	1	1
July	14	Plank Road, s. s., opposite Blanchard St.	6″	1	1
	15	Plank Road, s. s., e. of Waverly and Passaic Branch of N. Y. Bay R. R.	6″	1	1
	16	Plank Road, s. s., 900 ft. w. of Passaic River	6″	1	1
	17	Peddie St., n. s., 800 ft. e. of Frelinghuysen Ave.	6″	1	1
Aug.	18	Plank Road, s. s., 75 ft. west of Passaic River	6″	1	1
	19	N. E. cor. of Adams St. and Harper St.	6″	1	1
	20	N. E. cor. of N. J. R. R. Ave. and Earl St.	6″	1	1
	21	N. E. cor. Alpine St. and N. J. R. R. Ave.	6″	1	1
Sept.	22	Margaretta St., n. s., 400 ft. e. of Ave. L.	6″	1	1
Oct.	23	Thomas St., n. s., 350 ft. w. of Adams St.	6″	1	1
	24	Hamburgh Pl., n. s., 130 ft. e. of Ave. L.	6″	1	1
	25	Hamburgh Pl., n. s., 470 ft. w. of Central R. R.	6″	1	1
	26	Woodside Pl., w. s., 500 ft. s. of Arlington Ave.	4″	1	1
Nov.	27	Plane St., w. s., 15 ft. s. of Nichols Alley.	6″	1	1
	28	Court St., n. s., 140 ft. w. of Broad St.	6″	1	1
Dec.	29	N. W. cor. of Warwick St. and Lang St.	6″	1	1

HIGH SERVICE.

Month	No.	LOCATION	Dia.	Hyd.	Stops
Feb.	30	N. Twelfth St., w. s., bet. 6th Ave. and 7th Ave.	6″	1	1
	31	Keer Ave., n. s., bet. Elizabeth Ave. and Bergen St.	4″	1	1
June	32	Crawford St., n. s., bet. Washington and High Sts.	4″	1	1
	33	Pomona Ave., n. s., bet. Clinton Pl. and Maple Ave.	6″	1	1
	34	Vassar Ave., n. s., bet. Clinton Pl. and Maple Ave.	6″	1	1
July	35	Spruce St., n. s., bet. Washington and High Sts.	4″	1	1
	36	Ridgewood Ave., w. s., opp. Belmont Ter.	4″	1	1
	37	N. W. cor. of N. 11th St. and Abington Ave.	4″	1	1
Aug.	38	N. W. cor. of Bergen St. and Hansbury Ave.	6″	1	1
	39	N. W. cor. of Bergen St. and Keer Ave..	6″	1	1
	40	N. E. cor. of Tremont Ave. and Cedar Ave.	4″	1	1
	41	Chelsea Ave., w. s., north of Tremont Ave. at City Line	4″	1	1
	42	Lyons Ave., s. s., opp. w. s. of Osborne Terrace	6″	1	1
	43	N. E. cor. of Abington and Highland Aves.	4″	1	1
Sept.	44	Ridge St., w. s., bet. First and Second Aves.	4″	1	1
	45	Huntington Terrace, w. s., bet. Hawthorne and Nye Aves	4″	1	1
	46	Huntington Terrace, w. s., 200 ft. s. of Nye Ave.	4″	1	1
	47	Heller Parkway, s. s., 260 ft. e. of North Sixth St.	4″	1	1
Nov.	48	S. E. cor. of Springfield Ave. and Prince St.	6″	1	1
	49	N. W. cor. of Plymouth and Isabella Ave.	4″	1	1
	50	N. W. cor. of Howell Place and Vermont Ave.	4″	1	1
	51	Goldsmith Ave., n. s., bet. Clinton Pl. and Maple Ave	6″	1	1

Month	No.	LOCATION	Dia.	Hyd.	Stops
Nov.	52	Grand Ave., w. s., bet. S. Orange Ave. and Arsdale Pl	4″	1	1
	53	S. W. cor. of Charlton St. and Springfield Ave.	6″	1	1
	54	S. W. cor. of Boyd St. and Springfield Ave.	6″	1	1
	55	S. W. cor. of Schley St. and Shaw Ave	6″	1	1
	56	Schley St., w. s., bet. Shaw Ave. and Lyons Ave.	6″	1	1
	57	N. W. cor. of Schley St. and Lyons Ave	4″	1	1
	58	Schley St., w. s., bet. Nye and Bragaw Aves.	6″	1	1
Dec.	59	Ridge St., w. s., bet. Second and Abington Aves.	6″	1	1
	60	Ridge St., w. s., 400 ft. s. of Abington Ave.	6″	1	1
	61	S. W. cor. of Ridge St. and Abington Ave	6″	1	1
	62	S. W. cor. of N. 10th St. and Delavan Ave.	6″	1	1
	63	Weequahic Ave., n. s., bet. Maple Ave. and Hedden St	6″	1	1
	64	N. W. cor. of Schuyler Ave. and Nye Ave.	6″	1	1
	65	N. W. cor. of Schuyler Ave. and Eckert Ave.	6″	1	1
	66	S. W. cor. of Schuyler and Hawthorne Aves.	6″	1	1

HIGH PRESSURE HYDRANTS.

Month	No.	LOCATION	Dia.	Hyd.	Stops
Jan.	1	S. E. cor. of Morris and Thirteenth Aves.	8″	1	1
	2	S. E. cor. of Morris Ave. and Bank St	8″	1	1
March	3	S. E. cor. of William and Shipman Sts	8″	1	1
	4	S. W. cor. of William and High Sts	8″	1	1
	5	William St., n. s., bet. High and West Sts.	8″	1	1
April	6	Shipman St., w. s., bet. William and Court Sts.	8″	1	1
	7	Shipman St., w. s., centre of Park in Court St.	8″	1	1

Month	No.	LOCATION	Dia.	Hyd.	Stops
April	8	S. E. cor. of Broad and Clay Sts.....	8″	1	1
	9	Broad St., e. s., 50 ft. n. of Division St...	8″	1	1
June	10	Broad St., w. s., 80 ft. n. of Lombardy St.	8″	1	1
	11	N. W. cor. of Broad St. and West Kinney St.	8″	1	1
	12	N. E. cor. of Chestnut and Broad Sts.....	8″	1	1
	13	Halsey St., w. s., n. of Camfield St.....	8″	1	1
July	14	N. E. cor. of Broad and Grant Sts.....	8″	1	1
	15	N. E. cor. of Broad St. and Eighth Ave..	8″	1	1
	16	S. W. cor. of Grant and Spring Sts.....	8″	1	1
Aug.	17	St. Francis St., e. s., bet. George and Komorn Sts.	8″	1	1
	18	S. W. cor. of St. Francis and George Sts.	8″	1	1
	19	S. W. cor. of St. Francis and Komorn St.	8″	1	1
	20	S. E. cor. of St. Francis and Ferry Sts...	8″	1	1
	21	St. Francis St., w. s., bet. Komorn and Kossuth Sts.	8″	1	1
	22	Ferry St., n. s., opp. e. s. of Magazine St.	8″	1	1
	23	Ferry St., n. s., opp. e. s. of Main St.....	8″	1	1
Sept.	24	Mechanic St., n. s., 300 ft. w. of Mulberry St.	″	1	1
	25	S. W. cor. of Bank and Washington Sts..	8″	1	1
	26	N. W. cor. of Mulberry and Mechanic Sts.	8″	1	1
	27	N. W. cor. of St. Francis and Kossuth Sts.	8″	1	1
	28	S. W. cor. of William and Washington Sts.	8″	1	1
	29	N. W. cor. of Plane and William Sts.....	8″	1	1
	30	N. E. cor. of William and Arlington Sts..	8″	1	1
	31	S. W. cor. of William and West Sts.....	8″	1	1
	32	Springfield Ave., s. s., 50 ft. w. of Howard St.	8″	1	1
Oct.	33	S. W. cor. of Sussex Ave. and First St..	8″	1	1
	34	N. W. cor. of Sussex Ave. and Second St.	8″	1	1
	35	S. E. cor. of Sussex Ave. and Fourth St..	8″	1	1
	36	S. W. cor. of Sussex Ave. and Fifth St..	8″	1	1
Nov.	37	Essex St., w. s., bet. Orange and James Sts.	8″	1	1

HYDRANTS REPLACED DURING THE YEAR 1913

July	1	Bowery St., from 110 ft. w. of junction to junction of Ferry St.....	8″	1	1

SUMMARY OF FIRE SERVICE

COMPANIES	No. of station alarms answered	No. of still alarms answered	No. of station alarms worked at	No. of still alarms worked at	No. of hours of engine duty	No. of lengths of hose used	No. of extinguishers used	No. of chemical tanks used
Engine Co. No. 1	217	22	65	12	22 h 32 m	358	16	16
" " " 2	251	9	29	7	23 h 35 m	365	12	18
" " " 3	269	8	38	4	36 h	315	20	.....
" " " 4	252	4	59	4	31 h 15 m	371	6	31
" " " 5	304	8	73	5	59 h 30 m	488	13	52
" " " 6	350	15	55	10	19 h 58 m	248	34	30
" " " 7	336	15	37	13	23 h 25 m	251	30	.....
" " " 8	166	20	63	10	31 h 35 m	308	21	33
" " " 9	162	11	47	5	18 h 41 m	199	43	8
" " " 10	267	13	73	6	27 h 41 m	344	27	37
" " " 11	166	15	33	12	14 h 20 m	157	13	22
" " " 12	363	16	72	9	35 h 42 m	307	30	42
" " " 13	57	18	19	12	9 h 36 m	81	15	9
" " " 14	195	13	59	7	29 h 22 m	329	15	35
" " " 15	131	5	23	3	15 h 41 m	172	5	8
" " " 16	107	6	18	.....	45 h	186	9	21
" " " 17	65	9	10	6	7 h 50 m	79	13	6
" " " 18	145	6	38	6	24 h 32 m	208	21	18
" " " 19	42	6	10	4	3 h 45 m	67	2	6
" " " 20	327	12	57	3	21 h 10 m	271	10	38
" " " 21	41	13	12	10	5 h 20 m	97	7	5
" " " 22	195	10	43	6	17 h 5 m	256	17	16
" " " 23	42	5	5	4	2 h 10 m	24	9	.....
" " " 24	30	.....	8	.....	2 h 29 m	35	6	.....
" " " 25	29	1	1	.....	.....	11	.....	1
Searchlight " 1	30	.....	7	.....	.....	.....	6	.....
Chemical " 1	232	6	63	6	90 h 45 m	218	8	27

SUMMARY OF FIRE SERVICE

COMPANIES	No. of station alarms answered	No. of still alarms answered	No. of station alarms worked at	No. of still alarms worked at	No. of hours on duty out of quarters	No. of ladders raised	No. of feet of ladders raised	No. of extinguishers used
Truck Co. No. 1	190	5	85	5	97 h	132	2484	24
" " " 2	200	5	96	5	102 h 19 m	111	2720	42
" " " 3	283	6	119	1	140 h 9 m	129	2735	85
" " " 4	206	11	88	9	112 h 33 m	129	2547	46
" " " 5	308	11	106	8	72 h 45 m	100	1739	64
" " " 6	55	14	24	14	24 h 43 m	20	382	42
" " " 7	100	1	54	.....	34 h 15 m	61	1226	58
" " " 8	95	6	43	5	45 h 18 m	45	961	13
" " " 9	29	.....	8	.....	4 h	8	128	2
Water Tower No. 1	10	1	2	1	7 h	.....	.....	2

FIRE COLLEGE.

Operations in conformity to the plan of instruction originally established in the Fire College were resumed during the 1913 term along more broadly developed lines. Every company in the department was required to attend sessions for at least one week. This method was then varied by forming classes of men detailed from different companies. Instruction was given in the duties set forth in the manual of the department and all of the men were thoroughly drilled in the work of fire protection and fire fighting.

The College has been under the direct supervision of a competent officer and all operations instituted therein have been approved by the Chief Engineer.

Needless to say, the effect produced by systematically training the men is gratifying. The members individually have a higher conception of their duties as firemen and the department in general is possessed of a greater unity of purpose than formerly was the case. This fact is clearly indicated when the men are confronted with actual fire conditions, and a display of quite excellent judgment by the firemen has been apparent, particularly during the trying experiences always encountered at serious fires.

GENERAL RECOMMENDATIONS.

I reiterate the following recommendations, embodied in suggestions submitted in my report for 1912, and which were indorsed by the Board of Fire Commissioners:

1. A continuation, along general lines, of the high pressure water system.

2. A hook and ladder company in the vicinity of Twelfth Street and South Orange Avenue to relieve Hook and Ladder Company No. 3 in Bruce Street.

3. A double company for the lower part of the Tenth Ward, to accommodate a hook and ladder company and an engine company, at Gotthart Street and New York Avenue, or thereabouts.

4. The acquisition of a fire boat.

5. Extension of the fire prevention service.

6. A hook and ladder company at a point in the Vailsburg section in the vicinity of South Orange Avenue and Sunset Avenue. This would mean a strong element of safety to schools and charitable institutions, housing many children, located thereabouts.

7. A double company at Highland Avenue and Bloomfield Avenue, or thereabouts.

8. A double company at Bergen Street and Custer Avenue, or thereabouts.

9. A motor-driven water tower.

10. A tractor for propelling purposes on extra sized

11. A hook and ladder company at Warren and Eleventh streets, or thereabouts.

engine now in reserve; a hose wagon, with tractor, to complete equipment, and a tractor arrangement on an extra hook and ladder truck.

Existing conditions are dealt with from personal knowledge, experience and observation, with a view to future developments and needs, and the advancement of departmental efficiency.

Since my last report, many changes have taken place, improvements effected and various important recommendations carried out.

The Fire Limits have been extended, thus materially reducing the frame area of the city and consequently lessening the fire hazard.

Provisions having been made for a motor-driven engine, and company in Mt. Prospect Avenue, a double company, hook and ladder and engine (motor-driven), at Avon Avenue and Thirteenth Street, a new building replacing Engine Company No. 9, in Summer Avenue near Kearny Street (occupied by motor-driven apparatus), and the building in Academy Street, occupied by an Engine Company, a Searchlight Company and as quarters for a Deputy Chief, it is timely to suggest that, in the construction of new buildings to be used in the fire service, that double company arrangements be made, for economic and practical reasons, and that space be provided for the temporary housing of horses during an emergency period.

In the event of mishaps that might place motor-driven apparatus out of commission, thereby compelling recourse to horse-drawn apparatus, it is imperative that necessary sanitary conveniences be considered in all preparatory work.

It would seem to be vitally important that all plans and specifications for fire houses be submitted to the Fire Commissioners, in ample time for consideration and approval, or revision, before building proceedings are begun.

In the selection of sites for fire houses, it is requested that corner lots be chosen wherever possible or practicable.

With the advance of the motor-driven pumping apparatus, there is but one thing of paramount importance to bear in mind, and that is the reliability, availability and enduring qualities of goods purchased for fire fighting purposes and fire protection.

I will state, as a demonstrated fact, that in the event of a visitation by a heavy and severe snowstorm, of the proportions alluded to as "blizzards," it may be found to be impossible to reach the scene of a fire with motor propelled apparatus. A plight of this kind could only be overcome by apparatus of the horse-drawn type. The precaution to which attention is herein called, is a requirement of an imperative nature, and must not go unheeded. Neglect to make suitable provisions to meet described emergencies would assuredly result in an enormous fire loss to the community.

Experience has demonstrated the needs of changes and improvements, if the city and its taxpayers are to receive the protection that it is the purpose of those in authority to provide, and for the better safety of all; therefore to spread the mantle of increased protection over the widest

possible territory, I urged in last year's report the addition of a sixth alarm schedule, planned on the running card, and put into execution without unnecessary delay. This plan has been put into execution. By this process of operation life and property in one section is safeguarded while a major portion of the department is responding to calls to duties at serious fires in remote parts of the city.

With the establishment of Deputy Divisions, and the strengthening of the superior officer force in other respects, the opportunity for increasing the all around efficiency of the department is open and is no longer a difficult problem to solve.

All conditions tend to the minimizing of danger from fire hazards and the consequent reduction of insurance rates, the increasing of the confidence of insurance men in the Newark department, and Newark's reputation from the basis of fire risk investments.

There should be, at least, twenty-five thousand (25,000) feet of new 2½-inch fire hose purchased without delay. There is at present in service fifteen thousand feet of hose that, by reason of the period of time in the department, exposure, wear and tear, can no longer be considered dependable or safe. These goods should be either set aside as "seconds" for emergency purposes, or discarded outright. The latter course is the preferable one. The past year has been an exceptionally trying one on hose. Its lack of usefulness now is a consequence of the severe duty to which it was subjected. At no time should there be less than ten thousand (10,000) feet of thoroughly reliable hose in reserve and available for immediate use.

Toward the latter part of the year a motor-driven hose wagon for use in the high pressure zone, was put in service,

as well as a motor-driven aerial hook and ladder truck, the latter to replace the old one in the quarters of Hook and Ladder Company No. 1.

I now approach a proposition that may serve to solve a double problem. The idea is to so employ members of the department, who have reached the retirement period, but who do not wish to take advantage of the provisions of the pension law, and to utilize reserve apparatus that good protective results will be obtained and the department's general efficiency increased.

A reserve company or crew, composed of the older men, or men partially incapacitated from performing the harder work of the service, could be stationed at the house of Engine Company No. 2; another at Engine Company No. 7, and a truck at Hook and Ladder Company No. 9.

From this reserve force could be drawn men to temporarily fill in active companies when accident, sickness or other causes, would deplete the working quota of the latter. Reserve apparatus could be rushed in a hurry, when regular apparatus might be disabled, without the necessity of disturbing other conditions, and they would be available at all times for covering other companies on alarms that would run up into the "fours," "fives," or "sixes," for instance.

In many other ways an addition of this knid would be of incalculable value to the service and without entailing much cost. Directions for operating this reserve force could readily be arranged on the running card.

Among the many important factors which justify me in urging the immediate adoption of the suggestions herein advanced, with concurrent action conducive to their accomplishment are:

The remarkable growth in population, and its distribution over an area comprising twenty-three and one-half square miles.

The enormous increase in the value of property used for manufacturing, mercantile and residential purposes.

The ten and one-half miles of water front devoid of adequate fire protection.

The succession of tall buildings which require new and advanced facilities for fire protection and fire prevention.

I am not uncertain that a close scrutiny of the facts mentioned will sustain me in conclusions which prompted my setting forth the recommendations enumerated above.

To the Fire Commissioners and the members of the Fire Department I am grateful for the kindly assistance and cooperation which have enabled me the better to perform the duties of my office. I am pleased to include also the Police Department and Salvage Corps in this expression of appreciation.

Yours respectfully,

Paul J. Moore,
Chief Engineer.

GEORGE W. ACKERMAN

(Retired)

Joined the Department Dec. 16, 1901.

Retired Sept. 1, 1905.

Length of service, 3 years, 8 months, 16 days.

Died January 18, 1913.

HERMAN VOIGHT

(Retired)

Joined the Department Aug. 1, 1879.

Retired July 1, 1906.

Length of service, 26 years, 11 months.

Died November 25, 1913.

HEADQUARTERS

NAME.	POSITION.
PAUL J. MOORE	Chief Engineer.
CHARLES S. SMITH	Secretary.
GEORGE M. SANDERS	Clerk.
JOHN W. A. EIMESS	Stenographer.
IRVING R. POTTS	Office Assistant.
C. ALBERT GASSER	Inspector of Combustibles and Fire Risks.
JAMES L. JENKINSON	Assistant.
MARTIN J. KOPPE	"
THOMAS M. GUNNING	"
FREDERICK HERZIG	"
THOMAS FAGAN	"
ROY FAITOUTE	File Clerk.
HUGH M. HART	Department Surgeon.
JAMES T. GLENNON	Veterinarian.
REV. JAMES C. HOWARD	Chaplain.
REV. MICHAEL P. CORCORAN	"

CENTRAL OFFICE

FIRE ALARM TELEGRAPH.

ADAM BOSCH	Superintendent of Telegraph.
CHARLES WHITTEMORE	Assistant Superintendent.
JOHN G. LEFFINGWELL	Foreman of Linemen.
ROLAND STOLTE	Telegraph Lineman.
THOMAS F. HAVEY	" "
WILLIAM PRASS	" "
OTTO F. OLIN	" "
FRANK BULKLEY	Operator.
CHARLES D. STEVENS	"
JAMES SNEDEKER	"
JOHN E. LACEY	"
THOMAS J. RUDDEN	"
THOMAS M. McGOVERN	"
J. H. B. SHANNON	"

Fire Engine Companies

ENGINE COMPANY NO. 1.

Located 188-190 Mulberry Street. Engine placed in service July 2, 1906. Engine is an extra first-sized Amoskeag (three horse hitch), with two-horse, single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon; placed in service July 1, 1906. Both in good condition. Engine and wagon equipped with rubber tires.

MEMBERS	Badge No.	Position
William J. Fisher		Captain
William Maier		Lieutenant
James W. Clark	206	Fireman
Clifton Titcomb	300	"
William H. Brown	376	"
John E. Schumacher	405	"
Frank J. Kutcher	387	"
George Schmiedle	456	"
Joseph Chenoweth	309	"
Louis Pfirrmann	2	"
Isaac L. Wolverton	271	"
John J. Abt	471	"
Friederich W. Siegle	536	"

ENGINE COMPANY NO. 2.

Located 39-41 Centre Street. Engine placed in service February 8, 1897. Wagon placed in service September 7, 1905. Engine is first-sized, built by the American Fire Engine Company, Seneca Falls, N. Y. (with three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition and both equipped with rubber tires.

MEMBERS	Badge No.	Position
Wilbert H. Robotham		Captain
Darcie F. Van Volkenburg, Jr.		Lieutenant
Robert A. Dickerson	231	Fireman
Richard H. Winter, Jr.	326	"
Edward T. Barrett	366	"
Edward Hoffman	410	"
Philip O'Neill	417	"
Anthony F. Haggerty	452	"
Frank D. Burrows	403	"
Frederick A. Cook	508	"

ENGINE COMPANY NO. 3.

Located at 39 Court Street. Engine placed in service June 24, 1904. Wagon placed in service July 11, 1907. Engine is an extra second-sized Amoskeag (three-horse hitch), with two-horse hose wagon, equipped with Glazier deck nozzle. Engine and wagon in good condition, and both equipped with rubber tires.

MEMBERS	Badge No.	Position
George Bauer		Captain
John Mensinger		Lieutenant
John Leonard, Jr.	295	Fireman
Joseph W. Brown	291	"
Joseph Carey	331	"
Frederick Reiss	440	"
Michael Fagan	266	"
Charles Vanderstreet	351	"
Joseph Mochler	462	"
Charles T. Penk	486	"
Edward F. Weber	516	"

ENGINE COMPANY NO. 4.

Located at 225 High Street. Engine placed in service May 25, 1901. Wagon placed in service May 20, 1903. Engine is an extra second-sized Amoskeag (three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Compination Chemical Engine and Hose Wagon. Both equipped with rubber tires and in good condition.

MEMBERS	Badge No.	Position
William Corry		Captain
William J. Dargan		Lieutenant
Frank Garrett	41	Fireman
Elmer E. Gardner	119	"
Charles R. Newton	250	"
James H. Wallace	53	"
William A. Doremus	325	"
John H. Park	372	"
Charles A. Carter	328	"
Frank Dodd	429	"
Joseph A. Quinn	433	"
William H. Murphy	397	"

ENGINE COMPANY NO. 5.

Located at 65 Congress Street. Engine placed in service January 8, 1896. Wagon placed in service November 4, 1901. Engine is a first-sized La France (three-horse hitch). Two-horse single 60 gallon Champion Babcock Combination Chemical Engine and Hose Wagon. Both apparatus in good condition and equipped with rubber tires.

MEMBERS	Badge No.	Position
Charles S. Macknet		Captain
Edgar A. Young		Lieutenant
George Needham	192	Fireman
Ignatius Roth	318	"
William H. Pohle, Jr.	427	"
Leslie Van Hise	223	
Harry A. Poole	457	"
Thomas McDonald	490	"
Samuel Lomax	485	"
John T. Kinney	529	"
George H. Hebermehl	545	"

ENGINE COMPANY NO. 6.

Located at 344-346 Springfield Avenue. Engine placed in service February 14, 1902. Wagon placed in service April 24, 1906. Engine is a second-sized American (with three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon; both in good condition. Each equipped with rubber tires.

MEMBERS	Badge No.	Position
Joseph A. Weber		Captain
William Flood		Lieutenant
Martin Frank	356	Fireman
William H. McDowell	385	"
August Hyble	384	"
Anthony C. Helfrich	422	"
Henry W. Kemter	463	"
John A. Steutz	478	"
Frederick Kastner	494	"
William J. Sauerwein	507	"
William F. Halligan	497	"
Charles A. Mulvaney	362	"

ENGINE COMPANY NO. 7.

Located at Wallace Place and Hudson Street. Engine placed in service January 16, 1902. Wagon placed in service June 22, 1897. Engine is an extra second-sized La France Piston (three-horse hitch). Two-horse Hose Wagon; Glazier deck nozzle attached. Engine and wagon in good condition; both equipped with rubber tires.

MEMBERS	Badge No.	Position
Cornelius Smith		Captain
John F. Fox		Lieutenant
Thomas O'Toole	101	Fireman
John O'Toole	56	"
James McCarron	121	"
Edward Leeden	153	"
Hugh Connelly	386	"
John J. Simms	474	"
William R. Leidig	503	"
Albert R. Keegan	517	"
Francis E. Brogan	549	"

ENGINE COMPANY NO. 8.

Located corner Ferry and Fillmore Streets. Engine placed in service December 10, 1899. Wagon placed in service February 4, 1907. Engine is an extra second-sized Amoskeag (three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition. Both equipped with rubber tires.

MEMBERS	Badge No.	Position
Thomas S. Reilly		Captain
Charles W. Van Pelt		Lieutenant
Thomas H. McEnroe	134	Fireman
John A. Curran	265	"
John H. Tuite	426	"
Martin L. Coleman	234	"
Emil Kramer	382	"
John O'Shea	444	"
John J. Wagner	488	"
John F. McConnell	489	"
Charles E. Gass	505	"

ENGINE COMPANY NO. 9.

Located at 197 Summer Avenue. Apparatus placed in service May 24, 1911. Gasoline, motor-driven, Webb Combination Pumping Engine and Hose Wagon. Size 1, Model K.

MEMBERS	Badge No.	Position
Darcie Van Volkenburg		Captain
Daniel J. Spillane		Lieutenant
Edward J. Brown	105	Fireman
William J. Mawha	260	"
Robert H. Bennett	188	"
James P. Reilly	317	"
Andrew B. Clark	290	"
Francis T. Walsh	434	"
Charles Faust	222	"
William Drucker	458	"
Frank J. Reilly	514	"

ENGINE COMPANY NO. 10.

Located corner of Sherman Avenue and Astor Street. Engine placed in service May 1, 1902. Wagon placed in service May 3, 1902. Engine is an extra second-sized Amoskeag (three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition, and both equipped with rubber tires.

MEMBERS	Badge No.	Position
James Fagen, Jr.		Captain
Charles R. Bartlett		Lieutenant
Jacob P. Kircher	189	Fireman
Frederick Benkert	316	"
Theodore Brown	330	"
Patrick McDonagh	425	"
Jacob Zahn	432	"
Benjamin Fuss	447	"
William F. O'Brien	238	"
Frank J. Grant	509	"

ENGINE COMPANY NO. 11.

Located corner Central Avenue and Ninth Street. Engine placed in service March 1, 1894. Wagon placed in service December 14, 1901. Engine is an extra third-sized La France (three-horse hitch). Two-horse double 35 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition, and both equipped with rubber tires.

MEMBERS	Badge No.	Position
Michael J. Durkin		Captain
Peter F. Cunningham		Lieutenant
John B. Chenoweth	88	Fireman
Harry Faust	298	"
William J. Reilly	255	"
Herman Scherer	321	"
Michael J. Foster	217	"
William G. Gartland	370	"
Charles Brogan	461	"
William Genkinger	477	"
Robert Clark	319	"

ENGINE COMPANY NO. 12.

Located at 215 Belmont Avenue. Engine placed in service April 29, 1905. Wagon placed in service February 15, 1899. Engine is a second-sized Metropolitan (three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition, and both equipped with rubber tires.

MEMBERS	Badge No.	Position
Lewis W. Smith		Captain
Arthur W. Van Houten		Lieutenant
Henry Fischer	202	Fireman
John G. Rossbach	233	"
Max Meyer	263	"
George Sinnott	208	"
William A. Olvaney	314	"
Daniel Cavanaugh	431	"
Theodore G. Dick	344	"
Bernard A. O'Connell	481	"
Julius Abel	531	"

ENGINE COMPANY NO. 13.

Located corner Summer Avenue and Halleck Street. Engine placed in service February 26, 1889. Wagon placed in service October 12, 1900. Engine is a second-sized La France (with two-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition and both equipped with rubber tires.

MEMBERS	Badge No.	Position
William J. Saupe		Captain
Robert J. Dunn		Lieutenant
James H. Brown	115	Fireman
Peter Ghirlanda	225	"
Harry B. Tozer	288	"
John L. White	322	"
Edward D. Matt, Jr.	439	"
John J. Burnett	379	"
Horace R. Scarlett	467	"
Joseph A. Brown	491	"
Leon R. Donnelly	371	"
Malachi T. Towey	540	"

ENGINE COMPANY NO. 14.

Located corner McWhorter and Vesey Streets. Engine placed in service August 28, 1907. Wagon placed in service May 20, 1903. Engine is a second-sized Amoskeag, first-class running-gear (three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition and both equipped with rubber tires.

MEMBERS	Badge No.	Position
Ernest Ludwig		Captain
Christopher J. Devine		Lieutenant
John J. O'Neill	212	Fireman
George A. Roemmele	33	"
Lawrence F. McMahon	408	"
Fred J. Moehring	369	"
Raymond R. Wands	323	"
James F. Smith	360	"
John P. Scheib	264	"
James P. O'Donnell	512	"
Joseph P. Lynch	539	"

ENGINE COMPANY NO. 15.

Located corner Park Avenue and Sixth Street. Engine placed in service May 1, 1902. Wagon placed in service May 1, 1902. Engine is a second-sized Amoskeag (three-horse hitch). Two-horse double 35 gallon Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition and both equipped with rubber tires.

MEMBERS	Badge No.	Position
Alvin A. Bennett		Captain
R. A. S. Pierce		Lieutenant
Andrew E. Newton	112	Fireman
Victor J. Herrmann	237	"
Daniel Donovan	60	"
John Robrecht	446	"
Robert W. Hendricks	459	"
John T. Eagan	375	"
George R. Conklin	419	"
Emanuel E. Sheridan	475	"
Michael J. Rodgers	449	"
Harry W. Cottrell	496	"

ENGINE COMPANY NO. 16.

Located at 554 Ferry Street. Engine placed in service April, 1891. Wagon placed in service December 14, 1901. Engine is a second-sized Amoskeag (three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition, and both equipped with rubber tires.

MEMBERS	Badge No.	Position
John A. Cremen		Captain
John J. Schoemer		Lieutenant
Thomas H. Donahue	214	Fireman
John G. Herrscher	241	"
James J. McEvoy	247	"
John E. Burrows	402	"
Charles H. Brown	420	"
Thomas J. Kiley	460	"
Joseph Spiro	350	"
Joseph A. Fletcher	534	"
Frederick Lentz	535	"

ENGINE COMPANY NO. 17.

Located corner Clinton Place and Runyon Street. Engine placed in service April 18, 1894. Wagon placed in service September 22, 1905. Engine is a third-sized La France (three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition and both equipped with rubber tires.

MEMBERS	Badge No.	Position
Frank Bopp		Captain
Jacob Ash		Lieutenant
August Zeitler	139	Fireman
Frederick Brander	236	"
Clarence W. Wagner	97	"
William E. Decker	173	"
Michael F. Gordon	143	"
Hugo Brock	450	"
Joseph Haefeli	240	"
John H. Heger	293	"
Joseph A. Gartland	275	"

ENGINE COMPANY NO. 18.

Located corner Eighteenth Avenue and Twelfth Street. Engine placed in service January 8, 1887. Wagon placed in service December 20, 1904. Engine is a second-sized Amoskeag (three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition, and both equipped with rubber tires.

MEMBERS	Badge No.	Position
Patrick J. Donahue		Captain
Adam Rothlein		Lieutenant
Thomas Risden	320	Fireman
Christian Bentz	329	"
Daniel A. Kreyling	337	"
Joseph Schmitt	404	"
Frederick A. Reiff	120	"
John F. Cahill	451	"
Emil Buhrer	454	"
John A. Webber	466	"
Henry O. Schoettly	412	"

ENGINE COMPANY NO. 19.

Located corner Frelinghuysen Avenue and Fenwick Street. Engine placed in service January 28, 1901. Wagon placed in service February 23, 1907. Engine is a second-sized Amoskeag (three-horse hitch). Two-horse single 60 gallon tank Combination Chemical Engine and Hose Wagon (built by Valentine & Weeden Co., Trenton, N. J.). Engine and wagon in good condition and both equipped with rubber tires.

MEMBERS	Badge No.	Position
James A. Johnston		Captain
William J. Edwards		Lieutenant
Joseph W. Hager	377	Fireman
Albert Mueller	355	"
John J. Quinn	338	"
John Comstock	472	"
John J. Tartis	482	"
John J. Mulvaney	522	"
Leopold Mohr	523	"
Louis F. J. Jensen	480	"

ENGINE COMPANY NO. 20.

Located 15-17 Prince Street. Engine placed in service January 5, 1907. Wagon placed in service January 5, 1907. Engine is a second-sized Metropolitan (three-horse hitch). Two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon. Engine and wagon in good condition and both equipped with rubber tires.

MEMBERS	Badge No.	Position
James J. Dolan		Captain
Charles Sutphen		Lieutenant
Eugene Sullivan	123	Fireman
John C. Widman	381	"
Albert C. Feustel	380	"
Otto Bonnet	409	"
Henry J. Falk	343	"
Frederick Kramer	438	"
John J. Hines	383	"
Henry Hauck	538	"

ENGINE COMPANY NO. 21.

Located at 721-723 South Orange Avenue. Apparatus placed in service March 31, 1902. Two-horse single 60 gallon tank Combination Seagrave Chemical Engine and Hose Wagon. Equipped with rubber tires and in good condition.

MEMBERS	Badge No.	Position
John J. Hebring		Captain
Frederick Henze		Lieutenant
Walter W. O'Connor	117	Fireman
Lewis Moon	286	"
E. P. Durando	354	"
Lawrence Panizza	406	"
George A. Hayes	394	"
John B. Healey	133	"
Frederick Tack	398	"
Edward F. Johnson	532	"
William McConnell	145	"

ENGINE COMPANY NO. 22.

Located corner New and Colden Streets. Engine placed in service August 5, 1909. Wagon placed in service February 20, 1908. Engine is a second-sized Amoskeag (three-horse hitch). Two-horse single 60 gallon tank Combination Chemical Engine and Hose Wagon; built by J. G. Reichstetter & Son, Newark, N. J. Engine and wagon in good condition and both equipped with rubber tires.

MEMBERS	Badge No.	Position
Emil Lueddeke		Captain
Thomas Rock		Lieutenant
Patrick Mahon	64	Fireman
Harvey A. Shipman	307	"
John J. Farley	349	"
George H. Branin	437	"
James P. Dowd	347	"
Samuel R. Grouney	465	"
William A. Hemphill	479	"
George W. Fox	501	"
Christopher A. Heeney	498	"

ENGINE COMPANY NO. 23.

Located at 44 Mt. Prospect Avenue. Apparatus placed in service March 12, 1912. Gasoline, motor-driven, American-La France Combination Pumping Engine and Hose Wagon. Type 12.

MEMBERS	Badge No.	Position
Gilbert Stimis		Captain
Oscar J. Brown		Lieutenant

ENGINE COMPANY NO. 24.

Located at 77-79 Academy Street. Apparatus placed in service October 16, 1913. Gasoline, motor-driven, American-La France Combination Pumping Engine and Hose Wagon. Type 12.

MEMBERS	Badge No.	Position
John A. O'Connor		Captain
William J. Carey		Lieutenant

ENGINE COMPANY NO. 25.

Located corner Avon Avenue and South 13th Street. Apparatus placed in service September 22, 1913. Gasoline, motor-driven, White Combination Chemical Engine and Hose Wagon.

MEMBERS	Badge No.	Position
Christopher Lenz		Captain
Peter J. Norton		Lieutenant
Edward Englert	359	Fireman
Fred. A. Loescher	436	"
George Ruppel	297	"
John J. Rowe	424	"
Richard C. Duenwald	547	"
John W. Brown	546	"
John M. Bien	543	"

SEARCHLIGHT COMPANY NO. 1.
Located at 77-79 Academy Street.

MEMBERS	Badge No.	Position
Peter J. McKiernan		Captain
Charles E. Duffy	500	Fireman

TRUCK COMPANY NO. 1.

Located corner Mulberry and Lafayette Streets. Truck placed in service April 14, 1902. This company has a three-horse City Hook and Ladder Truck (Seagrave) with truss ladders. Apparatus is in good condition and is equipped with rubber tires.

MEMBERS	Badge No.	Position
Charles C. Storch		Captain
Joseph A. Barrett		Lieutenant
Robert Bernhardt	267	Fireman
Robert D. Bender	39	"
Ernest Klehm	313	"
Berton Lutes	407	"
Fred. N. Eggleston	411	"
Adrian Bried	418	"
Peter C. O'Brien	363	"
John V. Byrne	493	"
Frank L. Gaffney	524	"

TRUCK COMPANY NO. 2.

Located at 55 Plane Street. Truck placed in service July 3, 1907. This company has a three-horse American-La France Aerial Hook and Ladder Truck with truss ladders. Apparatus is in good condition and is equipped with rubber tires.

MEMBERS	Badge No.	Position
James McCabe		Captain
Frank Garrett, Jr.		Lieutenant
Ernest Pfeifer	243	Fireman
Charles H. Bachman	364	"
Frank A. Farrell	357	"
Gerald A. Stoffs	414	"
Hugh L. Towey	421	"
Luke A. Burke	464	"
William C. Langwasser	455	"
Ferdinand Stecher	395	"
John A. Hettinger	470	"
William H. Hull, Jr.	487	"

TRUCK COMPANY NO. 3.

Located at 82 Bruce Street. Truck placed in service April 4, 1902. This company has a three-horse American-La France Hook and Ladder Truck with truss ladders. Apparatus is in good condition and is equipped with rubber tires.

MEMBERS	Badge No.	Position
Thomas J. Hughes		Captain
Joseph J. Owens		Lieutenant
Joseph Hill	146	Fireman
Henry Horter	378	"
James F. Murphy	428	"
William H. Francisco	435	"
William A. Rowens	469	"
Peter A. Farley	476	"
John A. Garrity	495	"
Harry W. Royer	483	"
Thomas F. Cavanaugh	510	"
Frank N. Meeker	519	"
Charles A. Lang	361	"

TRUCK COMPANY NO. 4.

Located corner Congress and Lafayette Streets. Truck placed in service May 12, 1903. This company has a three-horse City Hook and Ladder Truck (American-La France) with truss ladders. Apparatus is in good condition and is equipped with rubber tires.

MEMBERS	Badge No.	Position
Fred. Manger		Captain
Patrick S. Smith		Lieutenant
James E. Caufield	302	Fireman
Philip Brady	272	"
John Gilsenan	312	"
John H. Schoebel	518	"
Joseph P. Lupton	254	"
Charles A. Baker	542	"
Daniel P. McLoughlin	392	"

TRUCK COMPANY NO. 5.

Located at 213 Belmont Avenue. Truck placed in service January 11, 1909. This company has a three-horse American-La France Aerial Hook and Ladder Truck with truss ladders. Apparatus is in good condition and is equipped with rubber tires.

MEMBERS	Badge No.	Position
Andrew MacNichols		Captain
Edward J. McGee		Lieutenant
Michael L. Klespey	253	Fireman
Frank W. Moehler, Jr.	92	"
Fred. W. Proschour	180	"
Henry C. Peterson	278	"
Harry J. Felmly	399	"
Herman E. Hanke	401	"
William Buckbee, Jr.	277	"
Albert C. Zirkel	396	"
James F. King	525	"
John J. Gann	526	"
Henry F. Feustel	541	"

TRUCK COMPANY NO. 6.

Located at 5 Washington Avenue. Truck placed in service January 23, 1896. This company has a three-horse City Hook and Ladder Truck (Gleason & Bailey) with truss ladders. Apparatus is in good condition and is equipped with rubber tires.

MEMBERS	Badge No.	Position
George E. Lacey		Captain
Edward H. Gilhooly		Lieutenant
Dominick F. Murray	261	Fireman
David J. Ryan	235	"
Horace N. Ryerson	443	"
Ernest J. Lang	353	"
William F. Gartland	216	"
James J. McGrath	473	"
William Ryan	520	"
John J. Dolan	533	"
Paul Huber	537	"

TRUCK COMPANY NO. 7.

Located corner Fifth Avenue and Sixth Street. Truck placed in service in 1899. This company has a three-horse City Hook and Ladder Truck (Gleason & Bailey) with truss ladders. Apparatus is in good condition and is equipped with rubber tires.

MEMBERS	Badge No.	Position
Harry S. Benedict		Captain
Michael J. Caffrey		Lieutenant
Robert Durie	308	Fireman
George Hagel	292	"
Charles Bauer	400	"
Raymond J. Robinson	413	"
Charles H. Eagan	415	"
John A. Byron	352	"
Alexander A. Bolton	499	"
William S. Welch	506	"

TRUCK COMPANY NO. 8.

Located 471-473 Ferry Street. Truck placed in service December 28, 1898. This company has a three-horse City Hook and Ladder Truck (Gleason & Bailey) with truss ladders. Apparatus is in good condition and is equipped with rubber tires.

MEMBERS	Badge No.	Position
Arthur M. Vanderstreet		Captain
John M. McKiernan		Lieutenant
Patrick J. Sweeney	294	Fireman
Henry Kappel	391	"
Elmer C. Van Ness	327	"
Frank Krebs	333	"
John J. Murray	521	"
Christopher T. Sauer	527	"
George W. Kaus	530	"
John F. Mullin	502	"
Frank B. Warner	504	"

TRUCK COMPANY NO. 9.

Located corner Avon Avenue and South 13th Street. Apparatus placed in service September 22, 1913. Gasoline, motor-driven 75-foot aerial hook and ladder truck.

MEMBERS	Badge No.	Position
Oscar Kaelberer		Captain
William H. Netschert		Lieutenant
Albert Shields	269	Fireman
Charles E. Mackey	365	"
Frederick A. Loines	303	"
Harry A. Sweet	484	"
Philip Treiber	227	"
William F. Aldinger, Jr.	548	"
Charles E. Schlosser	544	"

CHEMICAL ENGINE COMPANY NO. 1.

Located at Reserve Quarters, Prospect Street. Apparatus placed in service May 1, 1902. This company has a two-horse single 60 gallon tank Champion Babcock Combination Chemical Engine and Hose Wagon, in good condition, and equipped with rubber tires.

MEMBERS	Badge No.	Position
Joseph McCrec		Captain
Hugh P. Moran		Lieutenant
Austin Davis	62	Fireman
Peter Kiernan	388	"
William Kopp	358	"
Walter Larzleer	423	"
Albin P. Dempsey	513	"
Cornelius A. Brosnan	515	"
Charles J. Reilly	348	"

WATER TOWER COMPANY NO. 1.

Located at Reserve Quarters, Prospect Street. Apparatus placed in service April 24, 1903. This company has a three-horse Champion Water Tower, in good condition, and equipped with rubber tires.

MEMBERS	Badge No.	Position
W. Joseph Vesey		Captain
Emil Meyer		Lieutenant
John M. Stivers	131	Fireman
James T. Leonard	141	"
Henry M. Van Ness	100	"
Howell Putnam	284	"

RESERVE AND SUPPLY COMPANY NO. 1.

Located at 56-58-60 Prospect Street.

MEMBERS	Badge No.	Position
James C. Springstead		Captain
Jacob F. Sotzin		Lieutenant
George H. Smith	198	Fireman
Walter Steinwald	339	"
John T. Shanley		Stableman
Henry A. Schuler		"
John Catherwood		"
John Reh, Jr.		"
Robert E. Schweickhardt		"
William Guth		"

REPAIR DEPARTMENT.

Located at 56-58 Prospect Street.

MEMBERS	Badge No.	Position
Charles A. Clymer		Superintendent
M. T. Quigley		Inspector of Apparatus
William G. Gibbs	174	Assistant
James A. Cullimore	125	"
Fred. E. Ash	71	"
Fred. W. Herrmann	239	"
William W. Lunz	345	"
Michael Caffrey	108	"
James N. Davis		Carpenter
Truman Plant		Janitor
John J. Ward		Blacksmith

RECORD OF

FIRES AND ALARMS

From January 1st, 1913
To January 1st, 1914

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Jan. 1	416	3.29 a m	3.37 a m	1	False alarm	
1	437	3.46 a m	4.01 a m	2	False alarm	
1	428	4.05 a m	4.33 a m	3	False alarm	
1	Still	4.05 a m		4	Mr. Wokenburg	Mr. Wokenburg
1	441	4.36 p m	4.48 p m	5	Johnston Hurd	Johnston Hurd
1	693	8.30 p m	9.22 p m	6	M. E. Halsey	William Schaler
2	721	5.24 a m	5.52 a m	7	Mrs. F. A. Rist	J. Seidenschwarz
2	721	5.24 a m	5.52 a m	7	Mrs. F. A. Rist	Eagle Brewery
2	24	8.49 a m	9.39 a m	8	Fred. Kilgus	D. Covino
2	24	8.49 a m	9.39 a m	8	Fred. Kilgus	A. Monteverde
2	24	8.49 a m	9.39 a m	8	Fred. Kilgus	S. D. Addares
2	24	8.49 a m	9.39 a m	8	Fred. Kilgus	Alpha Candy Co.
2	679	7.51 p m	8.14 p m	9	S. Tiger	H. Greenberg
2	615	11.07 p m	11.11 p m	10	False alarm	
3	567	11.33 a m	11.51 a m	11	Public Service Railway Co.	Car Shops
5	625	9.28 a m	9.36 a m	12	L. R. Reich	L. R. Reich
5	626	2.59 p m	3.11 p m	13		
5	17	9.28 p m	10.56 p m	14	Mutual Benefit Life Ins. Co.	F. N. Wan Winkle
5	17	9.28 p m	10.56 p m	14	Mutual Benefit Life Ins. Co.	Ed. Smith
5	17	9.28 p m	10.56 p m	14	Mutual Benefit Life Ins. Co.	A. Williamson
5	17	9.28 p m	10.56 p m	14	Mutual Benefit Life Ins. Co.	Bloomfield Chemical Co.
5	17	9.28 p m	10.56 p m	14	Mutual Benefit Life Ins. Co.	Robert Kay
5	17	9.28 p m	10.56 p m	14	Mutual Benefit Life Ins. Co.	Louis Francis
5	17	9.28 p m	10.56 p m	14	Mutual Benefit Life Ins. Co.	F. S. Green
5	539	11.39 p m	11.52 p m	15	A. Zemel	A. Zemel
6	63	6.00 a m	7.14 a m	16	Max Fruchеman	Max Fruchеman
6	37	1.34 p m	1.55 p m	17	Albert R. Littlewood	Charles Fruchling
6	275	2.51 p m	3.49 p m	18	False alarm	
6	626	4.52 p m	5.07 p m	19	Max Kessler	M. Brennier
6	34	6.39 p m	6.48 p m	20	Louisa Haussling	Peter Triston
6	463	7.37 p m	7.59 p m	21	M. F. O'Neil	Automobile
6	5	9.34 p m	9.55 p m	22	Gould & Eberhardt	Mary Sternick
7	219	10.03 a m	10.30 a m	23	West Side Trust Co.	John Sutay
7	219	10.03 a m	10.30 a m	23	West Side Trust Co.	West Side Trust Co.
7	225	10.41 a m	10.59 a m	24	Aetna Realty Co.	Mrs. George Hulley
7	Still	2.10 p m		25	P. & H. Murray	P. & H. Murray
7	512	11.45 p m	11.59 p m	26	Public Service Corporation	
9	Still	2.09 a m		27	Out of city	
9	Still	9.05 a m		28	Charles Sommer	Toney Pascacci
9	Still	11.25 a m		29	Mrs. Reihman	Mr. Davis
10	Still	12.35 p m		30	John Gessinger	John Steigman
10	56	4.37 p m	5.20 p m	31	Hensler Brewing Co.	A. Baschstett
10	56	4.37 p m	5.20 p m	31	Hensler Brewing Co.	Unoccupied
10	297	10.38 p m	11.10 p m	32	Dixon Cascade Pump Co.	Ka Dix Motor Truck Co.
10	297	10.38 p m	11.10 p m	32	Dixon Cascade Pump Co.	Dixon Cascade Pump Co.
11	219	12.00 a m	12.06 a m	33	False alarm	
11	268	2.45 a m	3.06 a m	34	William Roemer	William Roemer
11	557	7.16 a m	12.03 p m	35	Leather & Pat. Cloth Nov. Co.	Leath. & Pat. Cloth Nov. Co.
11	557	2d alarm		35	C. Hornecher	C. Hornecher
11	557	2d alarm		35	C. Hornecher	C. Hornecher
11	557	2d alarm		35	F. Bechtold	F. Bechtold
11	557	2d alarm		35	L. Wirsching	L. Wirsching
11	557	2d alarm		35	J. Eckart	J. Eckart
11	557	2d alarm		35	J. Eckart	J. Eckart
11	237	5.50 p m	6.03 p m	36	Ackerman Estate	Harris Anker
11	146	7.59 p m	9.09 p m	37	G. Prestanio	G. Prestanio
11	129	9.21 p m	9.41 p m	38	Angelo Rizzolo	Angelo Rizzolo

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
.....	False alarm	.....	.....	.....	.....
.....	False alarm	.....	.....	.....	.....
.....	False alarm	.....	.....	.....	.....
488 Springfield ave	Rubbish in cellar	.....	.....	.....	.....
590 Mt. Prospect ave	Gasolene leak	.....	50.00	.....	.....
133 West st	Careless use of matches	275.00	100.00	3600.00	300.00
207 Sussex ave	Smoking	50.00	394.80	6500.00	1700.00
207 Sussex ave	Smoking	.....	.....	.....	.....
314 Plane st	Charcoal stove	635.00	1450.00	15000.00	2000.00
314 Plane st	Charcoal stove	.....	.....	.....	.....
312 Plane st	Charcoal stove	.....	69.00	.....	2000.00
61 Market st	Charcoal stove	.....	60.00	.....	4500.00
28 Prospect pl	Matches	100.00	167.70	32000.00	500.00
.....	False alarm	.....	.....	.....	.....
Plank Road	Painter's torch	.....	.....	.....	.....
677 High st	Hot ashes	.....	.....	4000.00	2000.00
68 Barclay st	Kettle of tar in yard	.....	.....	.....	.....
740 Broad st	Rubbish	847.00	203.65	8000.00	1200.00
740 Broad st	Rubbish	.....	.....	.....	.....
740 Broad st	Rubbish	.....	5.00	.....	500.00
740 Broad st	Rubbish	.....	.....	.....	.....
740 Broad st	Rubbish	.....	12.00	.....	500.00
740 Broad st	Rubbish	.....	.....	.....	.....
740 Broad st	Rubbish	.....	653.76	.....	10000.00
555 Ferry st	Gas explosion	20.00	.....	18000.00	.....
162 Prince st	Careless use of matches	.....	.....	4000.00	500.00
98½ Green st	Smoking	.....	10.00	6000.00	1000.00
.....	False alarm	.....	.....	.....	.....
121 Spruce st	Child and matches	20.00	53.00	25000.00	500.00
247 Mulberry st	Curtain and gas jet	25.00	47.50	6200.00	1000.00
Branch Brook Park	Leak in tank	.....	875.00	.....	1000.00
50 Union st	Candles	46.00	25.00	1000.00	.....
505 High st	Careless use of matches	75.00	80.00	32000.00	800.00
505 High st	Careless use of matches	.....	.....	.....	.....
124 Frelinghuysen ave	Matches	.....	20.00	4000.00	.....
188 Market st	Rubbish near heater	.....	.....	.....	.....
Merchant st	Telegraph pole afire	.....	.....	.....	.....
230 Belmont ave, Silver Lake	Out of city	.....	.....	.....	.....
212½ Thirteenth ave	Soot in chimney	.....	.....	.....	.....
74 Green st	Chimney	.....	27.80	4000.00	500.00
424 South Ninth st	Soot in chimney	.....	5.00	.....	.....
571 Market st	Defective chimney	698.82	.....	9000.00	.....
569 Market st	Defective chimney	.....	.....	.....	.....
295 Badger ave	Spontaneous combustion	15.00	243.90	15000.00	3000.00
295 Badger ave	Spontaneous combustion	.....	.....	.....	.....
.....	False alarm	.....	.....	.....	.....
Rear 208 Avon ave	Careless use of matches	.....	10.00	.....	.....
132 Frankfort st	Overheated drying oven	18000.00	18493.29	15700.00	5000.00
123 Frankfort st	Overheated drying oven	212.00	.....	3200.00	.....
125 Frankfort st	Overheated drying oven	.....	.....	.....	.....
127 Frankfort st	Overheated drying oven	70.00	.....	1500.00	.....
122 Frankfort st	Overheated drying oven	75.00	.....	2000.00	.....
152 Frankfort st	Overheated drying oven	70.00	.....	2500.00	.....
Rear 152 Frankfort st	Overheated drying oven	.....	.....	.....	.....
45 Thomas st	From candle	.....	20.50	2000.00	1000.00
10 Mt. Prospest ave	Suspicious	133.00	.....	8500.00	.....
9-11 Sixth ave	Matches	.....	.....	7000.00	.....

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Jan. 12	547	1.31 a m	2.19 a m	39	James Russo	James Russo
12	614	8.30 a m	8.40 a m	40	Nathan Goldin	Joseph Lupkin
12	25	11.34 a m	11.48 a m	41	Joseph Oswald	Universal Auto Co.
12	25	11.34 a m	11.48 a m	41	L. Bamberger & Co.	Auto No. 7308 N. J.
12	Still	2.47 p m		42	Mrs. Burns	Mrs. Burns
12	654	6.01 p m	6.06 p m	43	False alarm	
12	128	10.06 p m	10.13 p m	44	False alarm	
13	146	10.47 a m	11.03 a m	45	D. Giordono	D. Giordona
13	693	12.51 p m	1.17 p m	46	John Gunning, Sr.	John Tisson
13	Still	1.47 p m		47	J. J. Gregory	J. J. Gregory
13	638	4.26 p m	4.55 p m	48	Heyman Sanders	Joseph Metzger
13	519	9.58 p m	10.06 p m	49	False alarm	
14	637	12.56 a m	1.30 a m	50	George Zimmerman	George Zimmerman
14	295	1.28 a m	2.17 a m	51	Feist & Feist	Karof & Feldman
14	648	6.40 a m	6.49 a m	52	False alarm	
14	469	8.31 p m	9.22 p m	53	L. C. Partington	L. C. Partington
15	42	3.05 a m	3.15 p m	54	Arthur Haslam	J. J. Fitzgerald
15	225	6.30 p m	6.45 p m	55	False alarm	
15	643	7.52 p m	8.01 p m	56	False alarm	
15	Still	11.24 p m		57	A. M. Linnett	Automobile
16	643	5.17 p m	5.24 p m	58	False alarm	
16	146	10.35 p m	10.45 p m	59	Joseph Padula	O. Schechner
16	23	11.16 p m	11.40 p m	60	L. Lelong & Bro.	L. Lelong & Bro.
17	129	10.23 a m	10.58 a m	61	Alessio Mattia	Vito Raimo
17	64	10.35 p m	10.40 p m	62	False alarm	
17	241	11.12 p m	11.38 p m	63	Joseph Rothbard	Harris Krim
18	129	11.40 a m	12.29 p m	64	A. Del Gurico	A. Del Gurico
18	164	12.33 p m	4.15 p m	65	C. C. Lurich & Co.	C. C. Lurich & Co.
18	164	2d alarm		65	C. C. Lurich & Co.	S. Koskoff
18	164	2d alarm		65	C. C. Lurich & Co.	E. B. Davis
18	164	2d alarm		65	C. C. Lurich & Co.	S. Koskoff
18	164	2d alarm		65	C. C. Lurich & Co.	J. G. Hooper
18	164	2d alarm		65	C. C. Lurich & Co.	G. O. Totten
18	164	2d alarm		65	C. C. Lurich & Co.	A. T. Ellis
19	7	4.12 a m	4.29 a m	66	Krueger Brewing Co.	F. Nieburg
19	232	5.05 a m	5.27 a m	67	Rosie Samelsky	Sam Lapp
19	Still	3.55 p m		68	Edward McDonough, Agt.	Fred'k Woods
20	625	4.26 p m	4.32 p m	69	False alarm	
20	737	9.13 p m	9.39 p m	70	Phoenix Lock Co.	Phoenix Lock Works
21	Still	9.18 a m		71	M. Roche	A. Covelíske
21	236	10.03 a m	11.41 a m	72	Progressive Realty Co.	F. A. Coursen
21	236	10.03 a m	11.41 a m	72	Progressive Realty Co.	L. Bellís
21	236	10.03 a m	11.41 a m	72	Progressive Realty Co.	J. V. Laddy
21	236	10.03 a m	11.41 a m	72	Progressive Realty Co.	Herman Hubers
21	21	12.56 a m	1.06 p m	73		Anheuser-Busch Restaurant
22	Still	8.42 a m		74	John W. Collins	John W. Collins
22	41	6.00 p m	7.06 p m	75	Michael Pariso	C. Appolonia
22	41	6.00 p m	7.06 p m	75	Michael Pariso	F. Sandra
22	41	6.00 p m	7.06 p m	75	Michael Pariso	D. Palazzera
22	41	6.00 p m	7.06 p m	75	Michael Pariso	P. Galluci
22	41	6.00 p m	7.06 p m	75	Michael Pariso	M. Pariso
22	41	6.00 p m	7.06 p m	75	Michael Pariso	P. Pariso
22	41	6.00 p m	7.06 p m	75	Michael Pariso	Ballantine & Co.
22	41	6.00 p m	7.06 p m	75	Michael Pariso	J. Doll
22	41	6.00 p m	7.06 p m	75	Michael Pariso	A. Pinarco
22	Still	6.20 p m		76	Gould & Eberhardt	Mr. Katcuwich
22	571	10.56 p m	11.05 p m	77	Philip Fitzpatrick	Philip Fitzpatrick

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
49 Malvern st	Hot coal from stove	729.50	140.00	2000.00	
610 South Twelfth st	Matches		17.50	16000.00	400.00
416 Washington st	Gasolene vapor		285.40		3900.00
416 Washington st	Gasolene vapor				
78 South Ninth st	Overheated furnace				
	False alarm				
	False alarm				
30 Garside st	Kettle of tar on fire			11000.00	
64 Baldwin st	Chimney fire				
137 Johnson ave	Painter's torch		10.00		
36 Rutgers st	Children and matches	61.33		6000.00	
	False alarm				
66 South Orange ave	Careless use of matches	68.00	246.75	9000.00	3000.00
73 Waverly ave	Sparks from stove pipe	145.00	297.00	2000.00	1000.00
	False alarm				
Rear 673 Mt. Prospect ave	Supposed incendiary	125.00	175.00		
62-64 Centre st	Sparks from polishing wheel			16000.00	1000.00
	False alarm				
	False alarm				
Brunswick & Parkhurst sts	Gasolene leak		35.00		
	False alarm				
129 Seventh ave	From oil heater			16000.00	500.00
30 Nevada st	Sparks from stove pipe	10.00			
15 Sixth ave	Children and matches		20.00	8000.00	1000.00
	False alarm				
116 Peshine ave	Careless use of matches	75.00		6000.00	
28 Cutler st	Careless use of matches	275.00		8200.00	
2-4 North Ninth st	Supposed from heater	6222.54	3285.00	18000.00	4500.00
2-4 North Ninth st	Supposed from heater				
2-4 North Ninth st	Supposed from heater				
2-4 North Ninth st	Supposed from heater				
2-4 North Ninth st	Supposed from heater				
6 North Ninth st	Supposed from heater				
6 North Ninth st	Supposed from heater				
360 Warren st	Careless use of matches			5500.00	1200.00
181 Livingston st	Unusual smoke			4400.00	1000.00
366 Central ave	Soot in chimney				
	False alarm				
321 Third ave	From furnace	25.00		8000.00	
16 Monroe st	Chimney				
445 Clinton ave	Supposed from smoking	1771.00	700.00	31250.00	
445 Clinton ave	Supposed from smoking		115.00		500.00
445 Clinton ave	Supposed from smoking		88.00		1500.00
445 Clinton ave	Supposed from smoking		180.00		500.00
203 Market st	Grease on stove				
141 Congress st	Gas leak and lighted match				
121-123 South Canal st	From stove	1300.00	150.00	7000.00	
121-123 South Canal st	From stove		75.00		800.00
121-123 South Canal st	From stove				
121-123 South Canal st	From stove				
121-123 South Canal st	From stove		75.00		600.00
121-123 South Canal st	From stove		75.00		600.00
121-123 South Canal st	From stove				
121-123 South Canal st	From stove				
121-123 South Canal st	From stove		75.00		1300.00
61 Prospect st	Defective flue		10.00		
191 Pacific st	Chimney fire				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Jan. 23	216	2.46 p m	3.20 p m	78	P. Truppa	P. Truppa
23	Still	4.35 p m		79	John Pascano	William Virnes
23	35	9.17 p m	9.27 p m	80	Eisele & King	L. Bamberger & Co.
24	225	4.28 p m	5.15 p m	81	T. A. Haselmeyer	J. Hastings
24	513	4.48 p m	5.09 p m	82		
24	146	11.52 p m	12.36 a m	83	False alarm	
24	129	11.59 p m	12.14 a m	84	R. Festan	T. Cappola
24	129	11.59 p m	12.14 a m	84	R. Festan	F. Gentile
24	129	11.59 p m	12.14 a m	84	R. Festan	G. Derienzo
25	128	12.26 a m	12.35 a m	85	False alarm	
25	529	10.31 a m	10.41 a m	86	Henry Klein	Geo. Bell and others
25	Still	10.42 a m		87	J. Schwartz	
25	357	10.57 a m	11.25 a m	88	Newark Evening News	Newark Evening News
25	Still	12.00 p m		89	Harry Coleman	Lena Haulenbach
25	428	2.25 p m	2.34 p m	90	False alarm	
25	613	6.11 p m	6.46 p m	91	Sam. Williams	
25	824	8.40 p m	1.06 a m	92	Public Service Railway Co.	Car barn
25	824	2d alarm		92	Public Service Railway Co.	Car barn
25	824	3d alarm		92	Mary Reimbo	M. Perambo
25	824	3d alarm		92	Florence H. Kroeger	N. Jensen
25	824	3d alarm		92	Harry Denburg	H. Denburg
25	824	3d alarm		92	Helena Trunk	H. Trunk
25	824	3d alarm		92	John Whittle	G. Wuston
25	824	3d alarm		92	Ed. Kautzman	E. Kautzman & Co.
25	824	3d alarm		92	Anna M. Bauder	J. F. Bauder
25	824	3d alarm		92	Anna M. Bauder	E. Kautzman
25	824	3d alarm		92	H. Kautzman	J. J. Nichols
25	824	3d alarm		92	H. Kautzman	B. F. Sabine
25	824	3d alarm		92	H. Kautzman	E. C. Van Ness
25	824	3d alarm		92	H. Kautzman	M. Feishinger
25	824	3d alarm		92	H. Kautzman	Jos. Wolf
25	824	3d alarm		92	H. Kautzman	E. Kautzman
25	824	3d alarm		92	Mary Carr	E. J. Carr
25	824	3d alarm		92	Mary Carr	William Stewart
25	824	3d alarm		92	Mary Carr	P. Guentner
25	824	3d alarm		92	Mary Carr	M. Newby
25	824	3d alarm		92	Frank Fischer	Frank Fischer
25	824	3d alarm		92	Pauline Hankins	B. E. Cornewell
25	824	3d alarm		92	J. A. Heim	J. A. Heim
25	824	3d alarm		92	Emma R. Ross	C. Gordon
25	824	3d alarm		92	Ross F. Baldwin	W. Bowden
25	824	3d alarm		92	Mathilda Crane Estate	John Crane
25	824	3d alarm		92	John J. Beyerle	John J. Beyerle
25	626	8.45 p m	8.46 p m	93	False alarm	
26	56	3.22 p m	3.39 p m	94	George W. Weidenmayer	John Jullying
26	515	6.21 p m	6.26 p m	95	False alarm	
26	538	8.07 p m	8.30 p m	96	Michael Byrne	M. Burns
26	38	9.13 p m	9.47 p m	97	Selig Scheuer	M. J. Discroll
26	38	9.13 p m	9.47 p m	97	Selig Scheuer	S. Metzger
26	38	9.13 p m	9.47 p m	97	Selig Scheuer	R. Frank
26	38	9.13 p m	9.47 p m	97	Selig Scheuer	A. Friedman
26	244	9.19 p m	11.20 p m	98	D. Loprete	D. Loprete
26	244	2d alarm		98	D. Loprete	D. Loprete
27	614	10.03 a m	10.15 a m	99	L. Marx	L. Marx
27	216	10.29 a m	11.17 a m	100	D. Loprete	Stella Truppa
27	216	10.29 a m	11.17 a m	100	D. Loprete	Falto Cuchesi
27	216	10.29 a m	11.17 a m	100	D. Loprete	T. Saleino

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
293 Sherman ave	Careless use of matches	150.00	100.00	3500.00	
92 Sheffield st	Defective flue		50.00		
113 N. J. R. R. ave	Unusual smoke				
48 Vanderpool st	Defective chimney	38.00		2500.00	
80 Napoleon st	Burning rubbish in yard				
	False alarm				
68 Mt. Prospect ave	Unknown	400.00	50.00	4000.00	500.00
68 Mt. Prospect ave	Unknown				
68 Mt. Prospect ave	Unknown		4.00		1000.00
	False alarm				
67 Mott st	Unsual smoke				
67 Rutgers st	Defective flue				
215 Market st	From furnace				
Orange and Essex sts	From gas stove		15.00		
	False alarm				
26 Wickliffe st	Chimney fire				
634-636 Bergen st	Overheated stove	5100.00	26045.94		
621-623 Hunterdon st	Overheated stove				
640 Bergen st	Overheated stove	249.00		5000.00	
642 Bergen st	Overheated stove	25.00		4500.00	
629 Bergen st	Overheated stove	140.00		6000.00	
637 Bergen st	Overheated stove	39.00		7200.00	
639 Bergen st	Overheated stove	4.00		7200.00	
613 Hunterdon st	Overheated stove	10.00		2000.00	
615 Hunterdon st	Overheated stove	90.00		4500.00	
Rear 615 Hunterdon st	Overheated stove				
619 Hunterdon st	Overheated stove	6700.00	500.00	9000.00	1500.00
619 Hunterdon st	Overheated stove				
619 Hunterdon st	Overheated stove		1000.00		
619 Hunterdon st	Overheated stove		100.00		
619 Hunterdon st	Overheated stove		500.00		
619 Hunterdon st	Overheated stove		1500.00		
625 Hunterdon st	Overheated stove	1500.00		4000.00	
625 Hunterdon st	Overheated stove		273.00		500.00
625 Hunterdon st	Overheated stove		500.00		500.00
627 Hunterdon st	Overheated stove	50.00			
614 Hunterdon st	Overheated stove	35.00		8000.00	
618 Hunterdon st	Overheated stove	30.00	25.00	7200.00	
620 Hunterdon st	Overheated stove	175.00	25.00	5000.00	700.00
622 Hunterdon st	Overheated stove	60.00		2000.00	
624 Hunterdon st	Overheated stove	40.00		2000.00	
626 Hunterdon st	Overheated stove	28.00		2000.00	
628 Hunterdon st	Overheated stove				
	False alarm				
572 Market st	Careless use of matches	17.50	50.00	9000.00	
	False alarm				
58 Joseph st	From lamp		100.00	1500.00	
105 Mulberry st	Oil stove	325.00	134.90	5000.00	1000.00
105 Mulberry st	Oil stove		83.40		1600.00
105 Mulberry st	Oil stove		409.00		2000.00
105 Mulberry st	Oil stove		80.00		800.00
50-58 Branford st	Incendiary	600.00	1400.00		
48 Branford st	Incendiary				
482 Springfield ave	Hot ashes in cellar			4500.00	
299 Sherman ave	Incendiary	525.00	50.00	7500.00	
299 Sherman ave	Incendiary				
299 Sherman ave	Incendiary				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Jan. 27	Still	12.50 p m		101	H. Schwartz	H. Schwartz
27	626	6.24 p m	6.30 p m	102	False alarm	
27	28	9.51 p m	10.05 p m	103	F. Weinstein	M. Weinstein
28	543	6.24 p m	6.36 p m	104	Bella Grossman	M. Lerman
29	24	1.41 a m	12.06 a m	105	E. A. Kirch & Co.	E. A. Kirch & Co.
29	24	2d alarm		105	E. A. Kirch & Co.	E. A. Kirch & Co.
29	24	3d alarm		105	E. A. Kirch & Co.	E. A. Kirch & Co.
29	24	4th alarm		105	E. A. Kirch & Co.	E. A. Kirch & Co.
29	212	4.38 a m	4.45 a m	106	False alarm	
29	657	3.20 p m	3.35 p m	107	Krueger Brewing Co.	Auto truck No. 1314
29	612	7.52 p m	9.01 p m	108	A. Schneider	A. Schneider
29	679	10.34 p m	12.11 a m	109	S. Vogel	S. Vogel
29	21	11.52 p m	12.04 a m	110	Osborne Realty Co.	U. S. Shoe Repairing Co.
30	513	12.52 a m	1.04 a m	111	Public Service Corp.	
30	232	9.01 a m	9.23 a m	112	West Side Realty Co.	F. Berlin
30	Still	2.03 p m		113	Walter C. Jacobs	Walter C. Jacobs
30	614	2.47 p m	2.59 p m	114	New York Telephone Co.	Manhole in street
30	27	3.16 p m	3.30 p m	115	W. M. Berry	W. M. Berry
31	238	6.51 a m	7.09 a m	116	False alarm	
31	Still	5.26 p m		117	Herbert Austin	M. Creeden
31	295	8.18 p m	8.25 p m	118	Feist & Feist	R. Millman
Feb. 1	539	10.38 a m	10.57 a m	119	John Sherlock	J. Sherlock
1	137	11.34 a m	11.47 a m	120	Christian Feigenspan	J. Mullin
2	611	3.36 a m	4.46 a m	121	Mrs. Kastner	S. Ilkowitz
2	574	10.53 a m	11.26 a m	122	Central R. R. of N. J.	Freight car No. 36108
2	228	5.49 p m	6.02 p m	123		
2	213	8.23 p m	9.12 p m	124	L. S. Plaut	Salvation Army
2	6	8.44 p m	8.55 p m	125	A. Ross	M. Nagel
4	38	8.37 p m	8.42 p m	126	False alarm	
5	732	12.11 a m	12.39 a m	127	Beyer Realty Co.	Frank Deroses
5	635	10.22 a m	10.42 a m	128	Antonio Taumizziello	P. Carallo
5	Still	7.00 p m		129	H. Ptchiskey	D. Nemeth
5	679	9.44 p m	9.51 p m	130	Mr. Bierman	Samuel Grunt
6	541	5.44 a m	6.27 a m	131	Murphy Varnish Co.	Murphy Varnish Co.
6	715	9.15 a m	9.28 a m	132	Frank Travisano	M. Sandy
6	34	7.15 p m	7.29 p m	133	Enstice Brothers	L. Livermore
7	628	8.07 a m	8.54 a m	134	W. V. Egbert	W. V. Egbert
7	Still	1.30 p m		135	William Bley	William Bley
7	64	7.10 p m	7.42 p m	136	Charles Friedman	C. Friedman
7	732	7.58 p m	8.13 p m	137	False alarm	
7	155	8.01 p m	8.20 p m	138	P. Lowy & Co.	George Harris
7	524	10.08 p m	11.54 p m	139	H. Silver	Royal Silver Mfg. Co.
7	524	10.08 p m	11.54 p m	139	H. Silver	H. Silver
7	546	11.41 p m	12.24 a m	140	Hay Foundry Co.	Hay Foundry Co.
8	24	6.47 a m	7.29 a m	141	Charles W. Menk	Charles W. Menk
8	24	6.47 a m	7.29 a m	141	Charles W. Menk	E. Jacobson
8	628	8.16 a m	8.40 a m	142	P. Queenan	P. Queenan
8	721	8.34 a m	9.05 a m	143	Mrs. F. A. Rist	J. Seidenschwarz
8	363	4.19 p m	5.14 p m	144	Mrs. Caroline Kirchner	L. Baumann & Co.
8	Still	6.30 p m		145	John Brown	William Reilly
8	214	7.47 p m	7.58 p m	146	Watson Ross	J. Lees
9	128	12.11 a m	12.18 a m	147	False alarm	
9	693	12.49 a m	1.27 a m	148	Mrs. Elizabeth Waldstein	A. Silverman
9	7	10.18 a m	10.33 a m	149	M. McCormick	M. McCormick
9	539	11.19 a m	12.18 p m	150	B. Costello	B. Costello
9	165	12.34 p m	1.29 p m	151	Abraham Silberman	F. Morgan
9	654	2.41 p m	3.02 p m	152	Philip Gersten	A. Taylor

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
19 Rose st	Soot in chimney				
	False alarm				
6 Elizabeth ave	Sparks from stove	20.00	130.00	700.00	500.00
252 Walnut st	Children and matches		15.00	2000.00	
87-89 Bank st	From furnace	13210.00	63213.34	13210.00	42454.44
86-88 Academy st	From furnace				
86-88 Academy st	From furnace				
86-88 Academy st	From furnace				
	False alarm				
Rear 75 Belmont ave	Crossed wires		112.00		2500.00
Rear 42 West st	Unknown	529.00		1300.00	
284 Fifteenth ave	Unknown	2700.00	15120.07	6000.00	28500.00
4 Branford pl	Hot plate				
Napoleon st	Telegraph pole afire				
260 Belmont ave	Children and matches	10.00	70.00	18000.00	600.00
11 West End ave	Battery wires				
Front of 519 Sprinfield ave	Boiling over of paraffine				
74 Emmett st	Boy with lantern	37.00	92.30	4000.00	1200.00
	False alarm				
151 Brill st	Chimney				
76 Waverly ave	Cigarette on awning		17.50		1000.00
Rear 37 Shalk st	From gas stove	8.00	10.00		
82 Morris ave	Rubbish in cellar				
192 Springfield ave	Overheated stove	415.00	5693.58	4000.00	8150.00
Hawkins st. & P. R. R.	From acid	300.00			
128 Badger ave	Rubbish in yard				
115 Halsey st	From heater	115.00		5000.00	
274 Hunterdon st	Careless use of candle	10.00	110.00	4500.00	500.00
	False alarm				
780 North Sixth st	Overheated stove	25.00		4000.00	
233 Bergen st	Overheated stove	35.00		4500.00	
192 Barclay st	Soot in chimney				
303 Fifteenth ave	Smoke from stove				
80 Vesey st	Spontaneous combustion		100.00		
158 Warren st	Sparks from stove	10.00	35.00	3500.00	500.00
228 Mulberry st	Careless use of matches				
145 South Sixth st	Backfire on auto				
524 Central ave	Defective flue	25.00		6000.00	
5 Beacon st	Overheated stove	270.00		4000.00	
	False alarm				
130 Eleventh ave	Unusual smoke				
75-77 Nichols st	Overheated stack	594.28	800.00	7000.00	5000.00
75-77 Nichols st	Overheated stack				
Plum Point lane	Electric wires		25.00		
106 Market st	Careless use of matches	350.00	25.00	20000.00	
106 Market st	Careless use of matches				
158 South Seventh st	Thawing pipes	10.00		3500.00	
207 Sussex ave	From stovepipe	60.00		6000.00	
305 Plane st	Unknown	522.68	3125.00	5000.00	4000.00
91 Pacific st	Rubbish in cellar				
303 Washington st	From stovepipe				
	False alarm				
127 West st	Unknown	125.00	600.00		700.00
352 New st	Sparks from stove				
69 Vincent st	From range	90.00	41.25	2500.00	400.00
129 South Seventh st	Thawing pipes	25.00		4000.00	
85 Livingston st	Thawing pipes	25.00		4500.00	

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Feb. 9	Still	8.00 p m		153	Childs Restaurant Co.	Childs Restaurant Co.
10	14	4.59 a m	5.17 a m	154	Manny Beck	F. Bonin
10	54	11.31 a m	11.55 a m	155		
10	512	2.20 p m	2.36 p m	156	Harris Brooks	A. Gartner
10	219	2.33 p m	2.53 p m	157	Hyman Harris	N. J. Chandelier Co.
10	626	6.54 p m	7.16 p m	158		B. Flachman
10	617	7.56 p m	9.42 p m	159	Schnefel Brothers	Schnefel Brothers
11	684	6.53 a m	7.01 a m	160	M. Ogens	M. Ogens
11	Still	11.28 a m		161	Joseph R. Lynagh	John J. Sugrue
11	237	3.53 p m	4.06 p m	162		
12	131	10.16 a m	10.32 a m	163	William H. Cook	George Kerr
12	29	1.00 p m	1.19 p m	164	Mrs. Laura C. Monroe	L. C. Monroe
12	625	1.54 p m	1.59 p m	165	False alarm	
12	129	3.30 p m	3.52 p m	166		Vito Agresti
12	679	4.37 p m	4.43 p m	167	False alarm	
12	599	6.59 p m	7.10 p m	168		
12	687	8.28 p m	9.17 p m	169	M. Paliatta	M. Paliatta
12	Still	10.00 p m		170	John Hock	Adam Prior
13	134	9.25 a m	9.40 a m	171	Mrs. Hardwick	George Cohen
13	271	9.27 a m	9.41 a m	172	Woef Abrams	Leon Fick
13	637	10.39 a m	10.52 a m	173	J. Deitch	J. Deitch
13	Still	4.43 p m		174	William Dowd	Mrs. Martha Sullivan
13	578	7.17 p m	4.16 a m	175	Celluloid Mfg. Co.	Celluloid Mfg. Co.
13	578	2d alarm		175	Celluloid Mfg. Co.	Celluloid Mfg. Co.
13	37	7.45 p m	8.57 p m	176	Franz Realty Co.	Jatman Brothers
13	619	9.01 p m	9.13 p m	177	Danielo Hostzola	K. Caponetta
13	233	11.48 p m	12.03 a m	178	Public Service Corporation	Car barns
14	547	10.47 a m	11.06 a m	179	J. Sekalawski	J. Sekalawski
14	Still	1.25 p m		180	Mrs. J. M. Schlecter	John B. Keener
14	73	4.44 p m	7.07 p m	181	Basch & Greenfield	Basch & Greenfield
14	73	2d alarm		181	Basch & Greenfield	Basch & Greenfield
14	62	11.39 p m	12.04 a m	182	Aaron Lang	Schlachter & Naimer
15	663	4.55 a m	5.25 a m	183	Patrick Walsh	Patrick Walsh
15	246	1.00 p m	1.17 p m	184	George Stengel	George Stengel
15	712	3.10 p m	3.28 p m	185	E. Heyman	J. Sullivan
15	23	9.52 p m	10.21 p m	186	F. Molinelli	F. Molinelli
15	426	10.54 p m	11.17 p m	187	Mrs. Ella Bates	B. Gable
15	21	10.58 p m	11.14 p m	188	Stoutenburgh & Co.	Stoutenburgh & Co.
16	147	12.33 a m	12.39 a m	189	False alarm	
16	Still	8.28 a m		190	John Morris	Mrs. M. A. Lillybridge
16	614	9.22 a m	9.44 a m	191	Anthony R. Sweetra	F. Kennebecker
16	38	1.17 p m	1.29 p m	192	Cortland Parker Estate	J. J. Smith
16	121	10.57 p m	11.18 p m	193	M. Friedlander	S. Smith
16	288	11.54 p m	12.02 a m	194	False alarm	
17	21	7.10 p m	7.24 p m	195	Prudential Ins. Co.	
17	314	7.34 p m	7.54 p m	196	Mrs. W. C. Clark	
17	147	8.25 p m	8.30 p m	197	False alarm	
17	Still	8.55 p m		198	Arthur C. Hensler	Arthur C. Hensler
18	624	9.03 a m	9.21 a m	199	James Reilly	
18	65	2.17 p m	2.31 p m	200	Hyman Harris	
18	426	4.04 p m	4.14 p m	201	N. Burnett	N. Burnett
18	Still	5.29 p m		202	Petitt Realty Co.	F. W. Mausert
19	313	11.43 a m	12.02 p m	203	American Undergarment Co.	American Undergarment Co.
19	611	12.29 p m	1.00 p m	204	A. Satz	Max Pincus
19	7	6.28 p m	6.38 p m	205	Mrs. Louisa Cahill	L. C. Cahill
19	214	11.54 p m	12.13 a m	206	Schwarz & Son	Schwarz & Son
20	322	3.49 p m	4.15 p m	207	Ludwig & Oschwald	J. Ludwig Company

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
673 Broad st	Electric wires	106.96		28000.00	
162 Washington st	Hot ashes				
46 Jefferson st	Unusual smoke				
99 Van Buren st	Sparks from stove				
13 South Orange ave	Unknown	100.00	258.25	6000.00	8000.00
223 Broome st	From stove	3.00	35.00	6500.00	500.00
684 South Seventeenth st	Spon. Comb. of oily waste	8025.00	20000.00	29000.00	30000.00
52 Charlton st	Careless use of matches	15.00	135.00	4000.00	2000.00
110 Summit st	Soot in chimney				
79 Murray st	Chimney fire				
145 First st	From stove		5.00		500.00
39 Frelinghuysen ave	Overheated boiler	50.00		3500.00	
	False alarm				
43 Stone st	Thawing pipes				
	False alarm				
372 Adams st	Unusual smoke				
43 Smith st	Overheated stove	300.00	250.00	300.00	500.00
251 South Tenth st	Chimney				
313 North Sixth st	Oil stove	15.00	10.00		
315 Eighteenth ave	Oil stove				
28 South Orange ave	Hot ashes	175.00		6000.00	
180 Pennington st	Soot in chimney				
St. Charles st	Friction in crusher	4850.00	15000.00	20000.00	20000.00
St. Charles st	Friction in crusher				
66 Hamilton st	Unknown	883.15	4150.00	24000.00	5000.00
302 Morris ave	Unknown		10.00		
634 Bergen st	From stove				
49 Delancy st	From stove	10.00		2500.00	
180 Summit st	Soot in chimney				
67 Seventh ave	Dust explosion	2310.00	1987.00	65000.00	120000.00
67 Seventh ave	Dust explosion				
272 Fifteenth ave	From gas iron				
731 South Orange ave	Unknown	75.00		3500.00	
South side of Weston ave	Friction				
244 Warren st	Sparks from stove	10.00		3000.00	
328 Halsey st	Gas explosion	1050.00	25.00		
Rear 36-38 High st	Hot coal		10.00	800.00	800.00
803 Broad st	Supposed from smoking				
	False alarm				
106 Congress st	Heat from chimney				
457 Eigthteenth ave	From stovepipe	25 00		6000.00	
279 Market st	Oil lamp		40.00		
69 South Fifteenth st	Oil lamp	10.00	13.00	2500.00	
	False alarm				
781 Broad st	From smoking				
1010 Broad st	Chimney fire				
	False alarm				
165 Clinton ave	Sparks from chimney				
109 Bergen st	Chimney fire				
64 Seventeenth ave	Chimney fire				
45 Bloomfield ave	Boy and matches	25.00		2000.00	
237 Washington st	From smoking				
34-36 Green st	Unknown				
150 Springfield ave	Careless use of matches	73.55		10000.00	
20 Newton st	Sparks from matches		100.00		1500.00
72-76 William st	Gas stove		90.00		20000.00
22 Camfield st	Sparks from chimney	146.00		9500.00	

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Feb. 20	322	3.49 p m	4.15 p m	207	Ludwig & Oschwald	J. Williams
20	451	5.15 p m	5.32 p m	208	Arthur Devine	I. Nauhauser
20	732	11.55 p m	1.13 a m	209	Angelo Gibelo	A. Cabelsi
21	Still	5.15 p m		210	E. M. Waldron	Homan, Douglas & Co.
21	41	6.08 p m	6.22 p m	211	S. Scarbo	
21	Still	6.18 a m		212	Public Service Railway Co.	Trolley car No. 2252
21	643	6.29 p m	6.36 p m	213		
21	58	8.20 p m	8.31 p m	214	False alarm	
22	244	1.29 a m	1.57 a m	215	D. Loprete	D. Loprete
22	58	6.47 p m	8.32 p m	216	Newark Charcoal Co.	Newark Charcoal Co.
22	58	6.47 p m	8.32 p m	216	Pennsylvania Railroad	Freight car
22	58	8.59 p m	9.17 p m	217	False alarm	
22	244	11.58 p m	12.16 a m	218	D. Loprete	D. Loprete
23	551	4.37 a m	4.44 a m	219	False alarm	
23	587	4.50 a m	4.54 a m	220	False alarm	
23	Still	2.58 p m		221	Karp Kohn	Albert McLane
23	38	3.37 p m	4.09 p m	222	William DeWars	H. C. Marcell
23	416	5.22 p m	5.49 p m	223	Walter Hatch	F. L. Hatch
24	54	1.45 a m	1.56 a m	224	J. Labowsky	J. Labowsky
24	679	12.27 p m	12.40 p m	225		
24	424	1.36 p m	2.06 p m	226	Guiseppe Pinto	M. Messina
24	312	3.45 p m	3.56 p m	227	J. J. Hockenjos Co.	J. J. Hockenjos Co.
24	128	5.57 p m	6.15 p m	228	Angelo Serinan	V. Soríano
24	64	7.19 p m	7.33 p m	229		
24	14	11.17 p m	11.37 p m	230	Charles Schneider	Second Ward Dem. Club
25	134	8.59 a m	9.32 a m	231	Ferry Hat Mfg. Co.	Ferry Hat Mfg. Co.
25	Still	11.12 a m		232	Mrs. Catherine Riley	Mrs. Patrick Mahon
25	281	12.02 p m	12.34 p m	233	Henry Braun	S. G. Smith
25	626	12.24 p m	1.03 p m	234	William Yetter	Ida Weinstein
25	Still	1.10 p m		235	Jackson Estate	Vacant lot
25	Still	6.00 p m		236		Vacant lot
25	643	7.07 p m	7.11 p m	237	False alarm	
25	128	10.17 p m	10.46 p m	238	Angelo Carbo	J. Ligon
26	Still	5.17 a m		239	Healy Contracting Co.	Shaft of new trunk sewer
26	13	7.12 a m	7.25 a m	240	Victor Jacoby	Finke Mfg. Co.
26	Still	11.14 a m		241	Samuel A. Fichman	Samuel A. Fichman
26	539	11.16 a m	1.01 p m	242	P. Lupton Estate	S. Kleiman
26	539	11.16 a m	1.01 p m	242	P. Lupton Estate	V. Moticke
26	539	11.16 a m	1.01 p m	242	P. Lupton Estate	A. Cleisl
26	539	11.16 a m	1.01 p m	242	P. Lupton Estate	J. Ryan
26	539	11.16 a m	1.01 p m	242	P. Lupton Estate	G. Neller
26	539	11.16 a m	1.01 p m	242	P. Lupton Estate	J. Harnick
26	539	11.16 a m	1.01 p m	242	P. Lupton Estate	A. Kinzle
26	Still	11.35 a m		243	Joseph M. Sayre	Edward Leary
26	521	3.40 p m	4.34 p m	244	S. Gursowsky	S. Gursowsky
26	Still	4.35 p m		245	Mrs. F. Weidenbaum	Mrs. Gutrie
26	133	10.09 p m	10.45 p m	246	False alarm	
27	269	7.20 a m	7.31 a m	247		
27	224	3.02 p m	3.07 p m	248	False alarm	
27	551	4.44 p m	4.51 p m	249	Acetylene Welding Co.	Acetylene Welding Co.
27	541	5.43 p m	6.14 p m	250	Specialty Paper Box Co.	Specialty Paper Box Co.
27	28	8.21 p m	9.17 p m	251	James L. Robb	Mrs. J. Stapff
28	591	11.32 a m	12.01 p m	252	Fred Eberhardt	A. Waite
28	557	7.48 p m	8.13 p m	253	False alarm	
Mar. 1	125	1.44 a m	3.24 a m	254	A. C. Bates	The Scull Mfg. Co.
1	586	2.04 a m	2.24 a m	255	Hanson & Van Winkle Co.	Hanson Van Winkle Co.
1	Still	7.20 a m		256	M. Alper	F. Lisivins

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
24 Camfield st	Sparks from chimney				
28 Bridge st	Overheated stove				
612 North Ninth st	From stove				
41-43 Market st	Coal gas in cellar	200.00	100.00	1200.00	500.00
115 South Canal st	Chimney fire				
Washington av & Hinsdale pl	Controller box				
25 Seventeenth ave	Escaping steam				
	False alarm	100.00	130.00	3000.00	2000.00
58 Branford st	From smoking				
Mfg. R. R. & Albert ave	Careless use of matches				
Mfg. R. R. & Albert ave	Careless use of matches				
	False alarm				
46 Branford st	Spontaneous combustion				
	False alarm				
	False alarm				
195 Newark st	Soot in chimney				
57 Mechanic st	Overheating of roaster		125.00		2000.00
887 Clifton ave	Matches	180.00	275.00	3000.00	1000.00
15 Adams st	Unknown	15.00		4000.00	
227 Bruce st	Bursted water pipe				
1 Washington ave	Careless use of matches	74.00	15.00	4000.00	300.00
Maple place	Backfire on auto		150.00		1000.00
98 State st	Child and matches	30.00	15.00	3000.00	400.00
87 Richmond st	Chimney fire				
32 Comes alley	From smoking	15.00	5.00	4000.00	1000.00
337 North Fifth st	Spontaneous combustion				
310 Lafayette st	Chimney				
184 Hawthorne ave	Defective chimney	65.00	35.00	18000.00	500.00
103 Barclay st	Overheated stove	135.00		2500.00	
73-79 Elizabeth ave	Bonfire				
Heller P'kway & Grafton ave	Rubbish				
	False alarm				
10 Boyden st	Defective flue	50.00		3000.00	
Front of 161 Ogden st	Careless use of candle	500.00			
83-85 Plane st	From gas plate				
43 Montgomery st	Painter's torch	10.00			
143 Bowery st	Child and matches	1176.00	525.00	4000.00	1000.00
143 Bowery st	Child and matches		25.00		
143 Bowery st	Child and matches		25.00		
143 Bowery st	Child and matches		50.00		
145 Bowery st	Child and matches		25.00		
145 Bowery st	Child and matches		25.00		
145 Bowery st	Child and matches				
44 Astor st	Defective flue				
137 McWhorter st	From stove	465.00	100.00	3000.00	1000.00
65 Liberty st	Chimney				
	False alarm				
54 Peshine ave	Occupants fighting				
	False alarm				
43 Hermon st	Acetylene gas explosion		30.00		
181 Chestnut st	Careless use of matches				
34 Elizabeth ave	From stove	100.00	60.00	2000.00	2000.00
91 Bruen st	Defective flue				
	False alarm				
36-38 High st	Spontaneous combustion	600.00	810.00	800.00	1000.00
269 Oliver st	From smoking				
219 Livingston st	Defective flue				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Mar. 1	526	4.07 p m	4.24 p m	257	Wm. E. Chambers	D. Hand
1	227	7.40 p m	7.45 p m	258	False alarm	
2	288	1.35 a m	1.48 a m	259	False alarm	
2	61	4.27 a m	5.00 a m	260	John A. Derivaux	C. Sherer
2	61	4.27 a m	5.00 a m	260	John A. Derivaux	Krueger Brewing Co.
2	Still	12 noon		261	Dominick Mutti	Dominick Mutti
2	553	4.27 p m	4.45 p m	262	M. A. Smith Estate	T. Nalikowski
2	233	5.56 p m	6.20 p m	263		
2	Still	6.15 p m		264	Krueger Brewing Co.	Mrs. Mary Lock
3	363	12.03 a m	12.20 a m	265		
3	Still	10.25 a m		266	Leon Karpf	William Harris
3	439	11.07 a m	11.16 a m	267		
3	557	5.28 p m	5.45 p m	268		
3	637	8.03 p m	8.15 p m	269	Hyman Harris	J. E. Hilte
4	542	2.21 a m	3.19 a m	270	A. Hollander	A. Hollander & Son
4	729	12.40 p m	1.38 p m	271	David Apgar	J. C. Reiss
5	Still	9.56 a m		272	R. H. Rodgers, M.D.	R. H. Rodgers, M.D.
5	62	6.11 p m	6.35 p m	273	Max Haftel	
5	557	6.31 p m	6.44 p m	274	False alarm	
5	538	8.24 p m	9.22 p m	275	Central Railroad of N. J.	Freight car No. 1105
5	599	8.47 p m	9.38 p m	276	Angelo Pagano	A. Pagano
5	631	9.54 p m	10.06 p m	277	Mahle Theime	A. J. Versey
6	587	1.06 a m	2.07 a m	278	Diffany & Co.	Diffany & Co.
6	Still	9.45 a m		279	Mrs. Marie Otto	Fred Mauser
6	Still	3.55 p m		280	John Krichman	Frank Garlisch
6	717	5.10 p m	5.25 p m	281	Blasberg & Ziegler	Blasberg & Ziegler
6	512	8.20 p m	8.33 p m	282	O'Halloran Estate	G. Labent
6	426	11.04 p m	11.18 p m	283	Timothy Foyle	J. Henry
7	414	2.52 a m	4.09 a m	284	G. Wagner	G. Wagner
7	614	6.21 a m	7.23 a m	285	W. F. Schaeffer	W. F. Schaeffer
7	623	11.19 a m	11.30 a m	286	David Heller	S. Markowitz
7	547	4.39 p m	5.08 p m	287	Frank Del Griffo	M. Palmieri
7	134	6.23 p m	6.36 p m	288		
7	Still	6.24 p m		289	Fred. Greater	Mrs. William Clause
7	Still	6.45 p m		290	William Bley	Leo Duffy
7	252	7.49 p m	8.07 p m	291	Thomas J. Cunningham	Arthur Finch
8	269	2.32 a m	5.19 a m	292	Benjamin Hagel	M. Hoffman
8	269	2.32 a m	5.19 a m	292	Benjamin Hagel	I. Yeskel
8	269	2.32 a m	5.19 a m	292	Benjamin Hagel	Clark & Co.
8	Still	4.26 a m		293	James A. Berry	Herman Lutter
8	Still	8.55 a m		294	Joseph Fatoni	Antoinette Murphy
8	659	9.26 a m	9.34 a m	295	Johnston & Murphy	Johnston & Murphy
8	Still	3.15 p m		296		Vacant ground
8	418	4.28 p m	4.58 p m	297		Vacant lot
8	213	8.45 p m	9.12 p m	298	Arthur Mitchell	E. Howell
9	24	12.21 a m	12.34 a m	299	Carrie Lissner	J. Keffler
9	Still	1.20 p m		300	W. C. Walker & Sons	Vacant ground
9	Still	3.35 p m		301	Mr. Summers	Vacant lot
9	737	3.39 p m	3.54 p m	302	Vincenzo Filippone	V. Fillippone
9	Still	4.33 p m		303	Morris C. Cohn	Jacob Ritzky
9	Still	4.50 p m		304		Vacant lot
9	619	6.56 p m	7.03 p m	305	Nicolo Molanare	P. Infanlanio
10	Still	4.55 p m		306	Heller Brothers	Vacant ground
11	715	1.48 a m	1.55 a m	307	False alarm	
11	654	2.34 p m	2.38 p m	308	False alarm	
11	286	4.52 p m	5.05 p m	309	Louis Lesser	Louis Lesser
12	548	3.05 p m	5.10 p m	310	Apex Leather Co.	Apex Leather Co.

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
280 Walnut st	Rubbish	12.00		2500.00	
	False alarm				
	False alarm				
147 Springfield ave	From smoking	15.00		18000.00	
147 Springfield ave	From smoking				
111 Newark st	Rug caught fire				
105 Ferguson st	Sparks from chimney		15.00		
143 Chadwick ave	Chimney fire				
15 Colden st	Soot in chimney				
15 Springfield ave	Unusual smoke				
14-16 Sayre st	Unknown				
Riverside ave. & Herbert st.	Brush fire				
Avenue L & Magazine st	Brush fire				
37 South Orange ave	From candle	20.00	50.00	3000.00	
143 East Kinney st	Hot journal				
318 Seventh ave	Careless use of matches	267.00	60.00	4500.00	1500.00
49 Ninth ave	Covering on furnace				
219 Court st	Chimney fire				
	False alarm				
Lister ave. & Mfrs. R. R.	Boys and matches				
Rear 362 Thomas st	From smoking	372.50		800.00	
150 Littleton ave	From gas jet		10.00		500.00
209 Parkhurst st	Overheated boiler	276.00	30.00	15000.00	10000.00
77 Winans ave	Soot in chimney				
35 Van Buren st	Defective chimney				
242 Orange st	Matches				
83 Van Buren st	Children and matches		27.00		1000.00
24 Rowland st	Oil lamp	25.00	10.00	2500.00	
260 Washington ave	Suspicious	1170.00	115.00	5500.00	1000.00
692 South Eleventh st	Overheated stove	15.00	15.00		
134½ Newton st	Supposed boy and matches	25.00	15.00	3000.00	500.00
325 Jefferson st	Unknown	18.50	100.00	2500.00	
272 North Seventh st	Unusual smoke				
311 Lafayette st	Unknown	25.00	25.00		
88 South Ninth st	Backfire on auto				
330 Runyon st	Chimney fire				
50 Peshine ave	Supposed incendiary	1237.50	777.00	6500.00	5000.00
52 Peshine ave	Supposed incendiary				
48 Peshine ave	Supposed incendiary				
72 Frelinghuysen ave	Defective electric wires	30.00			
171 Elm st	Unknown	25.00			
42-54 Lincoln st	From gas jet		25.00		
Second st. near Montc'r ave.	Brush fire				
288 Verona ave	Burning brush				
186 Washington st	Careless use of matches	125.00	30.00	5000.00	800.00
254 Washington st	Lighted cigar butt	26.00	100.00	30000.00	1300.00
Wash't'n av. opp Irving st	Brush fire				
Clinton ave. & Eleventh st	Rubbish afire				
451 North Fifth st	Child and matches	30.00		2500.00	1500.00
222 Prince st	Awning afire	10.00			
Clinton ave. & 13th st	Rubbish afire				
295 Morris ave	Unknown		10.00		
Heller Pkwy. & Clifton ave.	Boys set fire to old tree				
	False alarm				
	False alarm				
721 South Eleventh st	Child and matches		70.00		500.00
341-343 Oliver st	Friction	6404.62	10083.93	10000.00	11000.00

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Mar. 12	548	2d alarm		310	Apex Leather Co.	Apex Leather Co.
12	619	7.48 p m	7.58 p m	311	J. V. Padulo	M. Bertale
13	269	9.15 a m	9.33 a m	312	Benjamin Eagel	M. Hoffman
13	225	7.36 p m	7.50 p m	313	City of Newark	Miller St. Public School
13	58	9.48 p m	10.01 p m	314	False alarm	
14	Still	10.15 a m		315	Mrs. S. K. Laninger	Mrs. S. K. Laninger
14	139	1.28 p m	1.43 p m	316	Helen O'Leary	H. O'Leary
14	24	4.22 p m	4.30 p m	317	Oscar Mockridge	Ludlow & Squier
14	64	5.05 p m	5.18 p m	318	Mrs. Wolf	D. Schwartz
15	516	8.37 p m	8.42 p m	319	False alarm	
15	527	9.18 p m	10.08 p m	320	New Jersey Zinc Co.	F. H. Kalbfleisch Co.
15	24	9.44 p m	9.54 p m	321	Oscar Mockridge	Ludlow & Squier
16	638	1.09 a m	1.19 a m	322	Eagle Brewing Co.	John Walsh
16	216	4.25 a m	5.14 a m	323	Halcon Ellis	Ellis Adding Typewriter Co.
16	225	4.33 a m	4.59 a m	324		
16	Still	5.38 a m		325	American Mono. Service Co.	American Mono-Service Co.
16	28	5.52 p m	6.02 p m	326	E. Levy	E. Levy
17	Still	10.58 a m		327		Vacant lot
17	295	4.08 p m	4.16 p m	328	J. Feldman	J. Feldman
17	517	4.10 p m	4.18 p m	329	False alarm	
18	732	1.53 a m	2.41 a m	330	Antonio Falcone	In course of construction
18	278	7.20 a m	7.49 a m	331	George Stengel	George Stengel
18	58	8.16 p m	8.27 p m	332	False alarm	
19	557	11.51 a m	12.16 p m	333		
19	Still	2.03 p m		334		Vacant lot
19	Still	3.30 p m		335	Oscar Mockridge	Ludlow & Squier
19	728	3.40 p m	3.56 p m	336	James Kelly	H. Linderoth
19	41	4.00 p m	4.16 p m	337	Edward Parsley	S. Brady
19	714	6.29 p m	8.23 p m	338	Hudson Hat Co.	Hudson Hat Co.
19	714	2d alarm		338	Hudson Hat Co.	Hudson Hat Co.
19	677	7.19 p m	12.57 a m	339	N. J. Sash & Door Co.	N. J. Sash & Door Co.
19	677	2d alarm		339	J. Dobovitz	L. Pollssetto
19	677	3d alarm		339	J. Dobovitz	J. Delovitz
19	677	3d alarm		339	J. Dobovitz	C. Gaffney
19	677	3d alarm		339	J. Malstri	G. Frater
19	677	3d alarm		339	J. Malstri	T. Havey
19	677	3d alarm		339	J. Malstri	J. Malstri
19	677	3d alarm		339	J. Auemiller	D. Daminauskas
19	677	3d alarm		339	J. Auemiller	J. Auemiller
19	677	3d alarm		339	J. Auemiller	C. Delinskas
19	677	3d alarm		339	J. Malstri	G. Frater
19	Still	8.51 p m		340	Samuel Goldstein	Ring Bros. & Co.
20	64	2.20 p m	2.46 p m	341	J. F. Kelly Estate	J. F. Kelly Co.
20	24	6.16 p m	6.34 p m	342	Oscar Mockridge	Ludlow & Squier
20	128	7.29 p m	7.34 p m	343	False alarm	
20	Still	7.50 p m		344	Raphael Caprio	Vincent Caprio
21	63	1.42 p m	2.29 p m	345	August Busine	
22	21	12.59 p m	1.11 p m	346	False alarm	
24	547	2.08 a m	3.27 a m	347	Ricardo Setty	Ricardo Setty
24	547	2.08 a m	3.27 a m	347	Ricardo Setty	Eagle Brewing Co.
24	419	11.55 a m	12.13 p m	348	Myron W Morse	E. Ferris
24	571	2.53 p m	4.00 p m	349	J. Rummell & Co.	J. Rummell & Co.
24	647	4.20 p m	4.54 p m	350	Max Biddleman	H. Seretsky
24	684	5.19 p m	5.28 p m	351	Fannie Goldstein	F. Goldstein
24	626	9.43 p m	9.56 p m	352	Aaron W. Glinkin	C. Wyatt
25	232	12.33 a m	12.50 a m	353	Samuel Otesky	J. Horowitz
25	568	5.24 a m	6.24 a m	354	Murphy Varnish Co.	Murphy Varnish Co.

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
341-343 Oliver st	Friction				
210 Bruce st	From stove				
50 Peshine ave	Previous fire rekindled				
Miller st	Unusual light				
	False alarm				
40 Park pl	Soot in chimney				
102 South Sixth st	From gas jet	10.00		2500.00	
97 Market st	From gas jet				
61 Rutgers st	Children and matches				
	False alarm				
Chapel st. & Morris Canal	Broken carboy of acid				
97 Market st	From gas jet				
297 Bank st	From gas jet		5.00		
Rear 308 Elizabeth ave	From smoking	1000.00		1000.00	
	Box pulled for above fire				
Vernon ave. & Oraton st	Rubbish in yard				
774 High st	Unusual smoke				
Montcl. av. near Sum'r av	Brush fire in lot				
273 Prince st	From stove				
	False alarm				
531 North Tenth st	Unknown				
Dayton st. & Evergreen ave	Friction				
	False alarm				
Hamburg Place road	Rubbish in lot				
Opp. 705 De Graw ave	Brush fire				
97 Market st	From candle				
119 South Fourteenth st	Fumigating		5.00		500.00
33 Durand st	Unknown	10.00		3500.00	
218-220 New st	Overheated drying room	3098.00	7978.21	9000.00	13676.14
	Overheated drying room				
379 South Seventh st	Unknown	980.00	52405.91	4000.00	33000.00
125 Sixteenth ave	Unknown	5000.00	1307.68	4000.00	
125 Sixteenth ave	Unknown		1000.00		
125 Sixteenth ave	Unknown		1000.00		
127 Sixteenth ave	Unknown	737.00	85.00	8000.00	1000.00
127 Sixteenth ave	Unknown				
127 Sixteenth ave	Unknown				
416 South Eighth st	Unknown	100.00	50.00	5000.00	
416 South Eighth st	Unknown				
416 South Eighth st	Unknown				
418 South Eighth st	Unknown	666.00	50.00	800.00	
480 Springfield ave	Chimney				
300 Norfolk st	Boys and matches	25.00		3000.00	
97 Market st	Lighted gas jet		25.00		30000.00
	False alarm				
59 Summit st	Child and candle		20.00		500.00
200 Howard st	Chimney fire				
	False alarm				
234 Chestnut st	Incendiary	389.10	125.00	2500.00	1700.00
234 Chestnut st	Incendiary				
79 Wakeman ave	Matches				
178 Pennington st	From smoking	929.00	528.64	750.00	750.00
145 Fourteenth ave	Child and matches	140.00	340.00	10000.00	1000.00
129 Prince st	Defective stovepipe				
94 Somerset st	Oil lamp	10.00	15.00	3000.00	
176 Belmont ave	Unknown	64.00	37.00	6500.00	1000.00
McWhorter st	Overheated kettle		25.00		

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Mar. 25	613	10.44 a m	11.05 a m	355	W. H. Shawger	H. Creuther
25	Still	5.15 p m		356	M. A. Smith Estate	L. J. Dunn
25	121	5.55 p m	6.28 p m	357	Friedman & Ricke	Louis Stein
25	121	5.55 p m	6.28 p m	357	Friedman & Ricke	Friedman & Ricke
25	721	10.57 p m	11.05 p m	358	False alarm	
26	654	11.31 a m	11.49 a m	359	George Schmitter	Mandelovitz & Cohen
26	297	12.50 p m	1.05 p m	360	Jacob Goeller	Fred. Disbrow
27	697	12.09 a m	6.35 a m	361	Beck Brothers	Beck Brothers
27	6	1.26 a m	2.05 a m	362	Feibelman & Co	G. J. George
27	6	1.26 a m	2.05 a m	362	Feibelman & Co	J. Silver
27	6	1.26 a m	2.05 a m	362	Feibelman & Co	D. Kaplan
27	232	10.44 a m	11.00 a m	363	Golder Fiedler	A. Goldberg
27	238	12.52 p m	1.00 p m	364	Charles W. Compton	Callen & Matthews
27	548	1.21 p m	1.56 p m	365	Gustave Schroeck	W. Soden
27	543	1.21 p m	1.56 p m	365	Gustave Schroeck	G. Schroeck
27	319	4.41 p m	5.50 p m	366	Robinson-Roders Co	Robinson-Roders Co
28	296	8.08 a m	8.18 a m	367	Bertha Vadenhover	J. Thomas
28	426	9.09 a m	9.38 a m	368	Miller & Elsden	Miller & Elsden
28	232	10.04 a m	10.48 a m	369	I. Fischman	C. Sender
28	232	10.04 a m	10.48 a m	369		M. Weinstein
28	232	10.04 a m	10.48 a m	369		M. Librach
28	Still	10.20 a m		370	M. Mahan	M. Mahan
28	258	4.42 p m	5.16 p m	371	George Virtue	C. J. Hughes
29	Still	9.27 a m		372	A. Wiener	Mrs. Lientenberger
30	268	10.08 a m	10.18 a m	373	Abraham Bernstein	A. Harkavy
30	27	1.00 p m	1.22 p m	374	A. Daenhoff	A. Daenhoff
30	Still	5.15 p m		375	Gould & Eberhardt	Standard Art Metal Works
30	234	11.40 p m	11.55 p m	376		
31	512	3.00 a m	3.40 a m	377	William Salemfriend	B. Millington
31	512	4.19 a m	5.15 a m	378	William Salemfriend	M. Burne Co
31	Still	12.45 p m		379	M. Burne Co	Charles Morgan
31	Still	4.45 p m		380	Henry Mueller	Charles Morgan
April 1	571	7.14 a m	7.36 a m	381	Baigio Martinio	T. Pulgiese
1	258	9.02 a m	9.22 a m	382	Victor Melborne	T. J. Burgess
1	245	11.30 a m	11.52 a m	383	E. S. Ward & Co	E. S. Ward Co
2	52	4.30 a m	4.52 a m	384	Central Railroad of N. J	Railroad trestle
2	556	5.55 a m	6.16 a m	385	William F. Carson	William F. Carson
2	Still	11.25 a m		386	Jeremiah F. O'Brien	Jeremiah F. O'Brien
2	Still	12.55 p m		387	King-Maiser Co., agents	Vacant lot
2	Still	2.44 p m		388	Henry Sunderlicker	John Fierstein
2	593	5.22 p m	6.34 p m	389	James Smith, Jr.	Edward Scanlon
2	423	5.31 p m	5.51 p m	390	S. R. Wolters	D. E. Downs
3	543	3.06 a m	3.10 a m	391	False alarm	
3	56	4.15 a m	4.40 a m	392	Aaron Krueger	Aaron Krueger
3	695	7.31 a m	7.49 a m	393	Harry Schultz	B. Schlosser
3	518	8.48 a m	8.59 a m	394	Newark Spring & Mattress Co	Wagon load of excelsior
3	37	12.35 p m	1.11 p m	395	Michael Carr	Vacant lot
3	578	1.42 p m	2.03 p m	396	Celluloid Mfg. Co	Celluloid Mfg. Co
3	679	3.38 p m	3.49 p m	397	Mamie Wise	Marcus Wise
3	684	4.54 p m	6.05 p m	398	Mrs. Anna Nelson	Jacob Skolnik
3	684	4.54 p m	6.05 p m	398		E. Skolafsky
4	Still	12.36 a m		399	Pennsylvania Railroad	Railroad trestle
4	Still	2.15 a m		400	Public Service Corporation	Trolley car No. 740
4	67	11.01 a m	11.43 a m	401	Louis Kellar	Gaza Rozitsch
4	629	3.06 p m	3.12 p m	402	False alarm	
4	295	4.58 p m	5.24 p m	403	Louis Gablowsky	Max Cohen
4	63	7.19 p m	7.25 p m	404	False alarm	

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
19 Sidney pl	Gas stove	43.25	50.00	2000.00	
275 Lafayette st	Chimney				
589 Orange st	Electric wires	200.00	120.00	4800.00	1200.00
589 Orange st	Electric wires				
	False alarm				
68 Livingston st	Overheated flue	35.00	18.00	1000.00	1000.00
596 South Belmont ave	Boy and matches		14.00		1000.00
260 Bruce st	Spontaneous combustion	1200.00	1200.00	3000.00	2000.00
321-325 Springfield ave	Careless use of matches	242.25	26.48	5000.00	700.00
321-325 Springfield ave	Careless use of matches		85.96		1000.00
321-325 Springfield ave	Careless use of matches		262.50		2000.00
9 Hillside pl	From candle	36.00	50.00	6000.00	
973 Broad st	Unknown				
39 Napoleon st	Gas leak	125.00	8.00	4000.00	500.00
39 Napoleon st	Gas leak				
33 N. J. R. R. ave	Friction in machinery		185.00		119547.03
194 Sherman ave	Hot ashes	15.00		5500.00	
Rear 7 Webster st	Defective flue	40.00		4000.00	1000.00
152 Charlton st	Child and matches	517.00	336.00	24000.00	500.00
152 Charlton st	Child and matches				
152 Charlton st	Child and matches		109.00		1200.00
382 South Eleventh st	Chimney				
309 Johnson ave	Defective construction	150.00		4500.00	
144 Second st	Soot in chimney				
517 Bergen st	Careless use of matches				
127 Wright st	Defective chimney				
Rear 60 Union st	Escaping steam				
13 Nicholson st	Chimney fire				
171 Ferry st	Rubbish in cellar	350.00		7500.00	1250.00
171 Ferry st	Previous fire rekindled	75.00	150.00	7500.00	1250.00
184 Mulberry st	Stovepipe	10.00			
20 Gladstone ave	Oil heater upset		20.00		500.00
146 Pacific st	Careless use of matches	13.00	9.00	1800.00	200.00
372 Hillside ave	Wood in oven				
414 Frelinghuysen ave	Overheated oven		50.00		
Madison st	Sparks from locomotive				
63 Elm road	Supposed matches in closet	166.00	200.00	2800.00	
526 Summer ave	Sparks from bonfire				
Wash'n av. & Carteret st	Boys and bonfire				
578-580 South Twelfth st	Burning rubbish in street				
509 N.J.R.R. ave	Sparks from locomotive	500.00	50.00		
23½ Belleville ave	Rubbish in cellar				
	False alarm				
10 Clover st	Unknown	15.00		1600.00	
Rear 542 South Twelfth st	Supposed incendiary	199.00	100.00	2500.00	
Front of 68 Ashbridge st	Spark from smoker's pipe		15.00		
41 Hamilton st	Rubbish in lot				
68 St. Charles st	Friction		35.00		
323 Fifteenth ave	Plumber's furnace				
36-38 Charlton st	Children and matches	525.00	50.00	4000.00	
Rear 97 Prince st	Children and matches				
Niagara st. crossing	Sparks from locomotive				
Springf'd av. & Huntdn. st.	Electric wires				
198 Morris ave	Child and matches	10.00	40.00	500.00	
	False alarm				
81 Waverly ave	Children and matches	65.00	90.00	3500.00	800.00
	False alarm				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
April 4	626	9.53 p m	10.11 p m	405	Harry Roth	Louis Lehrhoff
4	62	11.01 p m	11.37 p m	406	Julius Chetkin	Julius Chetkin
5	714	1.35 p m	2.58 a m	407	Hudson Hat Co.	Hudson Hat Co.
5	714	2d alarm		407	Hudson Hat Co.	Hudson Hat Co.
5	547	5.28 p m	6.16 p m	408	Wiener-Barnet Co.	Wiener-Barnet Co.
5	591	7.38 p m	7.55 p m	409	Public Service Corporation	Electric light pole
6	52	8.53 a m	9.01 a m	410	Joseph Fresolone	Grazio Maccaluso
6	Still	5.36 p m		411	Mr. Pasko	Fred. Scheen
6	644	6.56 p m	7.11 p m	412	Minnie Gahn	Otto Kisler
6	539	9.53 p m	10.20 p m	413	J. Blewitt	Mrs. T. Delevonich
7	419	7.38 p m	7.50 a m	414	Lincoln W. Frisbee	James P. Reilly
8	Still	9.25 a m		415	Ellis Himber	M. Niegel
8	667	9.55 a m	10.05 a m	416	False alarm	
8	611	3.14 p m	3.25 p m	417	Burns Estate	Julia Treacuski
8	655	7.19 p m	7.26 p m	418	False alarm	
8	541	8.38 p m	9.37 p m	419	Adolph Beck	Adolph Beck
8	541	8.38 p m	9.37 p m	419		J. L. Carlin
9	731	9.09 a m	9.35 a m	420	Patrick Donovan	John Schaefer
9	Still	9.15 a m		421	Newark Charcoal Co.	Newark Charcoal Co.
9	32	12.43 p m	1.30 p m	422	Mrs. Decker	A. Owens & Brother
9	32	12.43 p m	1.30 p m	422	Mrs. Decker	Peter Harness Co.
9	32	12.43 p m	1.30 p m	422	Mrs. Decker	N. J. Lithograph Co.
10	354	5.28 a m	5.53 a m	423	A. J. Lyons	Mrs. N. Kidney
10	64	8.51 a m	9.05 a m	424	N. Y. Realty Trading Co.	W. J. Coles
10	678	9.48 a m	10.01 a m	425	William E. McDougall	William E. McDougall
10	68	6.35 p m	7.01 p m	426	Bernard Horlein	Bernard Horlein
10	655	8.17 p m	10.51 p m	427	Richmond St. Christian Church	Carl Faustman
10	655	8.17 p m	10.51 p m	427	Valentine Hicks	R. E. Hammond
10	297	8.35 p m	8.42 p m	428	False alarm	
10	715	9.42 p m	10.15 p m	429	Angelo Guiliano	A. Burwell
10	715	9.42 p m	10.15 p m	429	Angelo Guiliano	M. Hicks
11	24	1.43 a m	1.59 a m	430	John Cox	James Bardis
11	599	8.33 a m	8.48 a m	431	C. B. & Q. R. R. freight car	General Electric Co.
12	Still	8.59 a m		432	Butterworth-Judson Co.	Wagon load of oil of vitrol
13	121	5.07 a m	5.27 a m	433	Albert Paul	Charles Oese
13	295	11.45 p m	11.57 p m	434	Morris Kuretzky	Benjamin Reicher
14	627	6.13 p m	6.23 p m	435	Henry Pfeil	Henry Pfeil
14	297	10.29 p m	10.35 p m	436	False alarm	
16	Still	11.30 a m		437	A. Wullach	W. Craufield
17	522	7.31 a m	7.50 a m	438	Celluloid Mfg. Co.	Celluloid Mfg. Co.
17	128	7.57 a m	8.29 a m	439	Gerarido Cico	Thomas Grasso
17	558	8.19 a m	8.26 a m	440	Public Service Corporation	Trolley car
17	611	8.54 a m	9.10 a m	441	A. Axt	A. Kaplan
18	Still	4.15 p m		442		City dumps
18	619	7.02 p m	7.07 p m	443	S. Dicomo	S. Dicomo
19	147	12.43 a m	12.52 a m	444	Joseph Serritella	Mr. Martino
19	697	4.03 a m	5.35 a m	445	Freda Rudolph	L. Goldblatt
19	697	4.03 a m	5.35 a m	445	Freda Rudolph	H. Hammer
19	697	4.03 a m	5.35 a m	445	Freda Rudolph	A. Schwartz
19	697	4.03 a m	5.35 a m	445	Freda Rudolph	St. Peter's Orphan Asylum
19	Still	12.59 p m		446	Max Berger	Oscar E. Tichenor
19	475	1.01 p m	1.25 p m	447	F. E. Reilly and W. D. Jones	Unoccupied
19	56	6.01 p m	6.16 p m	448	Central Railroad of N. J.	Railroad trestle
20	17	9.19 a m	9.50 a m	449	Public Service Corporation	Storage shed
20	Still	1.33 p m		450	Doctor Dodd	Victor Zall
20	123	2.49 p m	3.04 p m	451	G. Monroe, agent	A. Raycott
20	826	2.54 p m	3.13 p m	452	N. Y. C. & H. R.R. Co.	Freight car

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
165 Spruce st	Lighted cigar				
217 Springfield ave	Lighted cigarette	407.00	2325.00	12500.00	7000.00
218-220 New st	From boiler	300.00	966.96	5902.00	5531.42
218-220 New st	From boiler				
312 Adams st	Overheated furnace	200.00	20.00	2000.00	500.00
Lafayette st & N.J.R.R. av.	Short circuit				
58 Monroe st	Children and matches		25.00		
672 South Twelfth st	Soot in chimney	5.00		1500.00	
388 Eighteenth ave	Soot in chimney	25.00	15.00	2000.00	500.00
125 Bowery st	Burning mattress	5.00	15.00	2000.00	
323 Summer ave	Gas stove	5.00		3500.00	
297-299 Eighteenth ave	Defective flue				
	False alarm				
29 Broome st	Oil lamp upset				
	False alarm				
129-131 Oliver st	Unknown	378.00	100.00	7500.00	
129-131 Oliver st	Unknown				
79 Highland ave	Soot in chimney				
Albert av. & Mfrs. R.R.	Sparks from locomotive				
Oliver and Mulberry sts	Matches	160.00	769.14	40000.00	11000.00
Oliver and Mulberry sts	Matches				
Oliver and Mulberry sts	Matches				
66 Mulberry st	Careless use of matches	42.00	33.00	6000.00	200.00
71 Rutgers st	Smoking in bed		15.00		500.00
209 South Sixth st	Careless use of matches	25.00	20.00	3000.00	1500.00
174 Boyd st	Soot in stovepipe				
30 Richmond st	Suspicious	3194.00	400.00	10100.00	1100.00
32 Richmond st	Suspicious				
	False alarm				
127 Warren st	From smoking	94.60	10.00	1600.00	
129 Warren st	From smoking				
334 Plane st	Supposed from smoking	30.00		2400.00	
South st. freight yards	Unknown	25.00			
Front of So. Mkt. School	Broken carboy of vitrol		20.00		
12 South Fourteenth st	Supposed careless use of matches		5.00		
18 Avon pl	Gas jet	10.00		5000.00	
560 High st	Unusual smoke				
	False alarm				
24 Broome st	Soot in chimney				
295 Ferry st	Overheated press				
20 Boyden st	Lamp exploded				
Elm & Jefferson sts	Boy under trolley car				
51 Rankin st	Unknown	10.00	10.00	8000.00	
Near Hinsdale pl	Unknown				
18 Aqueduct alley	Boy and matches		5.00		500.00
Rear 6 Boyd st	Unknown				
Rear 6 Boyd st	Careless use of matches	161.00		400.00	
Rear 6 Boyd st	Careless use of matches		50.00		400.00
Rear 21 Livingston st	Careless use of matches		35.00		400.00
21 Columbia ave	Careless use of matches				
21 Columbia ave	Child and matches	66.00	225.00	7000.00	1500.00
429 Ridge st	Spark from furnace				
Ferguson st. crossing	Sparks from locomotive				
74 Park pl	Sparks from bonfire	158.00		8000.00	
101 Hartford st	Soot in chimney				
513 Orange st	Spark from chimney	5.00		4000.00	
River Street freight depot	Unknown				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Apr. 20	39	4.48 p m	5.32 p m	453	Andrew Anderson	Andrew Anderson
20	Still	7.25 p m		454	Catherine Nolte	Joseph Sales
20	416	10.01 p m	10.14 p m	455	Public Service Corporation	Trolley Car No. 1840
20	125	10.29 p m	11.37 p m	456		D. A. Ammeon
20	125	10.29 p m	11.37 p m	456		A. Parillo
20	125	10.29 p m	11.37 p m	456		A. Blumour
21	Still	9.50 a m		457		St. John's Cemetery
21	512	9.53 a m	9.57 a m	458	False alarm	
21	697	12.48 p m	1.10 p m	459	Wolf Dultz	John Goy
21	626	12.55 p m	1.05 p m	460	Joseph Hollander	Jacob Fingerman
21	712	6.19 p m	6.29 p m	461	Mrs. Sinclair	Anton Pavis
22	416	1.14 p m	1.33 p m	462	Mazzarro Mastrotavoro	Mazzarro Mastrotavoro
22	547	1.47 p m	2.05 p m	463	Giralamo Grasseffi	John H. Wortman
22	547	1.47 p m	2.05 p m	463	Giralamo Grasseffi	Giralamo Grasseffi
22	27	1.47 p m	2.12 p m	464	Mrs. Hetty Green	Unoccupied
23	416	8.47 p m	9.05 p m	465	William Mayer	Delivery wagon
24	678	2.01 a m	2.09 a m	466	False alarm	
24	643	3.45 a m	3.50 a m	467	False alarm	
24	236	12.59 p m	1.12 p m	468	Lowy, Berger & Finger Co.	Frederick C. Young
24	Still	1.50 a m		469	West Side Real Estate Corp.	Louis Berman
24	516	7.08 p m	7.18 p m	470	Guisseppe Fernla	Michael Fernla
24	367	9.50 p m	10.08 p m	471	Albert S. Koenig	Haas Bros. Co.
25	34	9.16 a m	9.19 a m	472	Edward L. Sanders	Mrs. Blum
25	269	12.53 p m	1.00 p m	473	Henry Beirsteiro	Harry Eigel
25	Still	1.50 p m		474		
25	553	3.13 p m	3.30 p m	475	John Krichman	Unoccupied stable
25	54	3.48 p m	4.09 p m	476	Sandor Haydn	Sandor Haydn
25	692	6.35 p m	6.59 p m	477	Michael Pivovar	Michael Pivovar
25	412	7.19 p m	7.32 p m	478	Mrs. Alberson	John Dougherty
26	78	9.49 a m	10.07 a m	479	Jacobson Brothers	Jacobson Brothers
26	614	10.17 a m	10.28 a m	480	Karl H. Tillmes	Karl H. Tillmes
26	Still	4.00 p m		481	Catherine Kucher	Harry Kruysman
26	129	5.53 p m	7.02 p m	482	C. A. Goldsmith	C. A. Goldsmith
26	Still	8.28 p m		483	M. A. Smith	Rose Palaski
26	573	8.29 p m	8.35 p m	484	False alarm	
27	129	8.10 a m	8.24 a m	485	Mrs. Del. Guercio	S. Calumbio
27	141	12.10 p m	12.33 p m	486	Mrs. Dimond	A. Cassvire
27	424	1.15 p m	1.27 p m	487	Jacob Scriba, Jr.	Dr. Lewis
27	214	9.03 p m	9.25 p m	488	John Jackson	Amelia Howard
28	715	10.05 a m	10.16 a m	489	John Leassa	John Leassa
28	319	9.49 p m	12.43 a m	490	Robinson-Roders Co.	Robinson-Roders Co.
28	319	2d alarm		490	Robinson-Roders Co.	Robinson-Roders Co.
28	319	3d alarm		490	Robinson-Roders Co.	Robinson-Roders Co.
29	412	8.26 a m	8.56 a m	491	Mary J. Foster	Mary J. Foster
29	655	4.19 p m	4.40 p m	492	Henry Arnold	Peter Crufi
29	Still	6.05 p m		493	Bridges Perry	Bridges Perry
30	268	4.22 p m	5.04 p m	494	Adam Meister	Hugh Dwyer
30	268	4.22 p m	5.04 p m	494	Adam Meister	C. E. Seilhamer
30	637	5.14 p m	8.05 p m	495	Mr. Lindeman	Benjamin Rackenberg
30	637	5.14 p m	8.05 p m	495		Max Broadsky
30	512	8.13 p m	8.21 p m	496	False alarm	
30	Still	10.16 p m		497	S. Havey	Automobile
May 1	611	6.56 p m	7.05 p m	498	Jacob Hoffman	Harry Roth
2	64	11.53 a m	12.04 p m	499		
2	21	12.53 p m	1.07 p m	500	A. L. & A. M. Peer	R. Walsh & Co.
2	626	7.24 p m	7.36 p m	501	Abraham Kaplan	Samuel Seigman
2	43	9.42 p m	9.54 p m	502	False alarm	

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
40 Pennington st	Careless use of matches	280.00	30.00	2500.00	
219 Belmont ave	Careless use of matches	10.00	50.00	4000.00	
Mt. Prospect & Verona aves.	Controller box				
51 Bloomfield ave	Matches in cellar	575.00	250.00	2000.00	500.00
51 Bloomfield ave	Matches in cellar				
49 Bloomfield ave	Matches in cellar				
Rear 108 Fourth ave	Brush fire				
	False alarm				
18 Boyd st	Children and matches	85.00	36.00	5000.00	800.00
225 Broome st	Careless use of matches		5.00		
136½ Newark st	Soot in chimney				
126 Verona ave	Careless use matches	10.00	50.00	1500.00	
176 Oliver st	Painter's torch	95.00	4.00	1500.00	1000.00
176 Oliver st	Painter's torch				
1168 Broad st	Boys stared fire in furnace	20.00			
Rear 186 Verona ave	From smoking	3.00	60.00	1200.00	600.00
	False alarm				
	False alarm				
444 Clinton ave	Rubbish near fence				
260 Belmont ave	Unknown	200.00	150.00	30000.00	500.00
135 Malvern st	Chimney				
83 Lafayette st	Oily waste in barrel				
271 Mulberry st	Smoky stove				
47 Peshine ave	Defective flue				
54 Academy st	Unusual smoke				
41 Van Buren st	Unusual smoke				
7 Monroe st	Butcher's smoke house	35.00	10.00		
58 Hayes st	Unknown	25.00	35.00		
1 Broad st	Curtain and gas jet	25.00	50.00		
354-256 Central ave	Smoky furnace				
538 Springfield ave	Unknown	20.00	10.00		
239 Belmont ave	Soot in chimney				
42 Cutler st	Sparks from furnace	823.00	459.41	5000.00	6000.00
79 Chamber st	Defective chimney				
	False alarm				
84 Cutler st	Leaky gas meter	10.00	52.00	4500.00	1800.00
114 Stone st	Defective flue	48.00		3000.00	
116 Arlington st	Automobile				
5 Maiden Lane	Lamp exploded	25.00	20.00	500.00	
138 Summit st	Explosion of olive oil in range	10.00	10.00	8000.00	
27-31 N.J.R.R. ave	Unknown	6373.00	23326.55	59265.00	140859.11
27-31 N.J.R.R. ave	Unknown				
27-31 N.J.R.R. ave	Unknown				
330 Belleville ave	Boiling over of fat	236.00	64.00	6000.00	3000.00
87 Thirteenth ave	From gas stove	60.00		400.00	
409 Warren st	Soot in chimney				
205 Avon ave	Supposed incendiary	67.50	100.00	9000.00	1500.00
205 Avon ave	Supposed incendiary				
61 South Orange ave	Boy and matches	350.00	925.00	4800.00	2200.00
59 South Orange ave	Boy and matches				
	False alarm				
Front of 15 Centre st	Back fire	10.00			
62 Broome st	Smoky stove				
58 Rutgers st	Unusual smoke				
157 Market st	Cigarette		28.00		11750.00
224 Prince st	Careless use of candle		5.00		400.00
	False alarm				

Date.	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
May 3	Still	9.54 a m		503	Dr. A. Cole	E. Beitman
3	228	12.12 p m	12.20 p m	504	Charles G. Miller	Charles G. Miller
3	Still	1.48 p m		505	Mrs. Louise Herrmann	Joseph Lester
3	Still	2.45 p m		506		W. Cardwell
3	451	11.50 p m	11.58 p m	507	Vanderpool Estate	Wm. M. Smith
4	Still	9.07 a m		508	Mrs. Ida Walters	Edward Blango
4	74	1.35 p m	2.03 p m	509	Sound Realty Co.	Demus Davis
4	611	7.03 p m	7.10 p m	510	Herman Schreiber	Herman Sadouky
4	Still	9.00 p m		511	S. H. Condit Estate	Groebe & McGovern
4	Still	10.20 p m		512	John Heyer	John Colinsantia
5	562	2.39 a m	3.15 a m	513	Thomas Foley	B. Schwartz
5	42	3.16 a m	3.28 a m	514	William Lehman	Mr. Roach
5	Still	3.20 p m		515	Joseph Wotiz	Automobile
5	Still	8.45 p m		516		Vacant lot
6	147	6.07 a m	6.40 a m	517	Patsy Calobis	Patsy Calobis
6	314	10.59 a m	11.13 a m	518	Marcus Sayre Estate	S. Subkin
6	626	2.44 p m	2.52 p m	519	Mrs. Anna Berger	Max Ginsman
6	626	8.55 p m	9.02 p m	520	False alarm	
6	554	9.06 p m	9.16 p m	521	Gus. Graner	Paul Loefflcr
7	684	10.44 a m	10.51 a m	522	Mrs. B. Jenny	Max Rosenthal
7	686	1.13 p m	1.20 p m	523	Morris Tuck	Isadore Lipnik
7	64	2.26 p m	3.26 p m	524	N. J. Realty & Trading Co.	W. J. Coles
7	64	2.26 p m	3.26 p m	524	N. J. Realty & Trading Co.	J. Carao
7	64	2.26 p m	3.26 p m	524	N. J. Realty & Trading Co.	B. Humphrey
7	516	4.38 p m	4.44 p m	525	False alarm	
7	Still	10.45 p m		526		
8	41	7.02 a m	7.11 a m	527	V. Marzeno	M. Pazzaio
8	14	7.47 a m	7.58 a m	528		Canal bridge
8	25	8.50 a m	9.06 a m	529	Frank M. Parker	H. MacPhee
8	724	6.18 p m	6.27 p m	530	Hahne & Co.	Hahne & Co.
8	Still	6.25 p m		531	E. W. Waldron	Albert Hoffman
8	Still	11.45 p m		532	Ludwig Sattler	Vincent Sponner
9	298	7.48 a m	8.07 a m	533	Samuel H. Fink	Henry Smith
9	271	9.39 a m	9.58 a m	534	Sam. Leibovitz	N. Silverstein
10	133	4.36 a m	4.55 a m	535	Edward Hemmicher	Lunch wagon
10	214	7.38 a m	7.53 a m	536	S. Leschziner	Stable (vacant)
10	321	8.36 a m	9.00 a m	537	Charles Burroughs	Hyatt-Burroughs Co.
10	51	7.13 p m	7.56 p m	538	J. H. Hatt	American Bit & Hame Co.
10	591	10.50 p m	2.04 a m	539	J. H. Hatt	American Bit & Hame Co.
10	591	2d alarm		539	J. H. Hatt	American Bit & Hame Co.
11	214	3.53 a m	4.07 a m	540	Empire Investment Co.	Jennie Reilly
11	612	2.42 p m	2.48 p m	541	B. Jenny	B. Jenny
11	Still	3.45 p m		542	Mihlon & Chapman	Newark Velodrome
12	23	9.46 a m	9.59 a m	543	J. R. W. Littell	J. R. W. Littell
12	526	10.59 a m	11.31 a m	544	James McEntee	Charles Tomkins
12	516	3.07 p m	3.39 p m	545	George Dey	Gregorie Deo
12	714	6.16 p m	6.32 p m	546	Emma Harris	Emma Harris
12	Still	6.57 p m		547	Estate of Stiles M. Parse	John Gasser
12	18	9.42 p m	9.53 p m	548	False alarm	
13	641	8.32 a m	9.52 a m	549	Mrs. Mary Borck	Paul Brunner
13	275	3.51 p m	4.08 p m	550	Out of City	
13	Still	4.59 p m		551	Public Service Railway Co.	Trolley car No. 1298
13	129	8.05 p m	8.40 p m	552	F. Casale	James Vainout
13	712	9.49 p m	10.01 p m	553	S. Klein	S. Klein
13	45	9.52 p m	9.57 p m	554	False alarm	
13	513	10.43 p m	11.25 p m	555	B. R. Ripley	Maria Conroy
14	128	12.36 a m	12.44 a m	556	False alarm	

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
Mulberry & Market sts	Rubbish between buildings				
56 Ridgewood ave	Rubbish in lot				
133 Union st	Soot in chimney				
185 Market st	Cigarette	10.00		45000.00	
494-498 Broad st	Cigarette on awning		15.00		1100.00
54-54½ Summit pl	Soot in chimney				
41-43 Sussex ave	Boy and matches				
37 Prince st	Oil stove upset				
Clinton and Lawrence st	Needless alarm				
91 Mt. Prospect ave	Boy and matches	10.00	25.00	4500.00	
164 Ferry st	Mice and matches	78.10	266.00	5000.00	2000.00
44 Mulberry st	Careless use of cigarette		50.00		5000.00
525 Central ave	Spark ignited gasolene				
Devine st. near Irvgtn line	Rubbish on dumps				
24 Aqueduct alley	Careless use of matches	125.00	20.00	1000.00	
374 Mulberry st	Explosion of oil lamp	10.00	50.00	4000.00	
219 Prince st	Gas stove and curtain	5.00		10000.00	
	False alarm				
119 Niagara st	Electric iron		25.00		1000.00
103 Prince st	Cigarette on awning	10.00	15.00	8000.00	3000.00
395 Springfield ave	Children and matches	5.00		4800.00	
71 Rutgers st	Defective flue	590.00	100.00	8600.00	
71 Rutgers st	Defective flue				
71 Rutgers st	Defective flue				
	False alarm				
Norfolk and Bank sts	Tree afire				
107 South Canal st	Smoking in bed		5.00		300.00
Plane st	From smoking				
24 Seventeenth ave	Burning sulphur under bed	10.00	10.00	2000.00	
High st, near Warren st	Supposed from smoking				
894 Broad st	Smoldering rags				
24 Seventeenth ave	Soot in chimney				
79 Chadwick ave	Chimney				
59 Fairview ave	Careless use of matches	75.00	217.00	6000.00	500.00
465 Warren st	Pan of fat boiled over	25.00	25.00		
Rear 10-12 Maiden Lane	Boys and matches				
141-149 Commerce st	Defective electric wires	100.00	941.25	13600.00	17000.00
59 New Jersey R.R. ave	Sparks from polishing wheel		15.00		4000.00
59 New Jersey R.R. ave	Spark from locomotive	3685.98	7500.00	6000.00	4000.00
59 New Jersey R.R. ave	Spark from locomotive				
2 Rowens Court	Soot in chimney	5.00		1000.00	
55 Morton st	Hot ashes in box				
693-711 South Orange ave	Lighted cigar butt				
30-34 Court st	Unusual smoke				
314 Walnut st	Careless use of matches	300.00	1071.48	4000.00	3000.00
129 Delancy st	Children and matches	50.00	10.00		
9 Searing st	From smoking	70.00	25.00	1750.00	750.00
76 Elm st	Soot in chimney				
	False alarm				
44 Holland st	Soot in chimney	6.00		2600.00	
	Pulled for fire in Irvington				
Wallace pl	Insulation on wires				
45 Stone st	Lamp exploded	10.00		15000.00	
315 New st	Unusual smoke				
	False alarm				
408 Lafayette st	Supposed from matches	190.00	222.26	2500.00	1000.00
	False alarm				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
May 14	146	12.43 a m	12.53 a m	557	False alarm	
14	129	12.56 a m	1.01 a m	558	False alarm	
14	Still	3.45 a m		559	J. L. Feibleman & Co.	David Kaplan
14	647	4.25 a m	4.31 a m	560	False alarm	
14	Still	9.50 a m		561		Mutual Distributing Co.
14	363	4.29 p m	5.06 p m	562	E. P. Hassinger	J. Messerer
14	363	4.29 p m	5.06 p m	562	E. P. Hassinger	L. L. Blum
14	363	4.29 p m	5.06 p m	562	Riker & Riker	C. Teniello
14	363	5.24 p m	5.32 p m	563	J. W. Greene & Co.	J. W. Greene & Co.
14	686	7.48 p m	7.56 p m	564	Trussel Brothers	Harry Castallan
15	225	1.03 a m	1.27 a m	565	William L. Blanchard	E. & M. Levey Co.
15	138	9.36 a m	9.50 a m	566	C. Griete	J. Shapill
15	651	10.26 a m	10.33 a m	567	Dr. Buechler	E. P. Brader
15	611	12.50 p m	12.55 p m	568	Morris Reinfeldt	David Kleinman
15	128	3.39 p m	3.46 p m	569	False alarm	
16	424	2.40 p m	3.01 p m	570	K. Melchoir	K. Melchoir
16	551	3.20 p m	3.28 p m	571	Patrick Reilly	William Pasynski
16	232	7.03 p m	7.09 p m	572	Pinkus Feldman	Wolf Bernhardt
16	78	10.05 p m	10.14 p m	573	False alarm	
16	143	10.25 p m	11.15 p m	574	Gottried Krueger	E. Hornecker
16	143	10.25 p m	11.15 p m	574	Gottried Krueger	E. Rudeine
16	143	10.25 p m	11.15 p m	574	Gottried Krueger	A. Vreeland
17	613	12.48 p m	2.30 p m	575	J. J. & C. F. Geiger	Everett Lewis
17	613	12.48 p m	2.30 p m	575	J. J. & C. F. Geiger	Mrs. Catherine Carrier
17	15	3.59 p m	4.25 p m	576	Mrs. Jessie Summerville	Mrs. Jessie Summerville
17	215	6.45 p m	6.56 p m	577	Warren Realty Co	Michael Glennon
18	625	2.12 a m	2.45 a m	578	Joseph Karmann	Augustus Miller
18	655	10.50 a m	10.57 a m	579	Joseph Mann	Patrick Murphy
18	128	11.53 a m	12.05 p m	580	Rocco Carbo	Morrow Carbo
18	Still	4.59 p m		581	Mrs. A. Maybaum	Fence
18	321	6.26 p m	6.35 p m	582	False alarm	
19	Still	12.35 p m		583		
19	Still	1.15 p m		584	F. W. Lemassena	Harvey Jenkinson
19	547	1.29 p m	1.50 p m	585	Tony Spizloa	Tony Spizola
19	15	2.39 p m	2.55 p m	586	Mrs. Jessie Sommerville	Mrs. Jessie Sommerville
19	Still	4.40 p m		587		Vacant lots
19	Still	6.05 p m		588	Frank Rardel	Mrs. McKeon
19	625	8.59 p m	9.06 p m	589	False alarm	
20	Still	8.45 a m		590	American Transformer Co.	American Transformer Co.
20	434	9.11 a m	9.23 a m	591	St. Michael's Church	St. Michael's School
20	Still	12.45 p m		592	Anthony Pofia	Charles High
20	697	8.08 p m	8.19 p m	593	A. & S. Lang	Calvin Coats
20	54	8.08 p m	8.24 p m	594	S. Brenner	S. Brenner
20	Still	11.50 p m		595	Pennsylvania Railroad	Trestle
21	Still	8.45 a m		596	Mrs. Nellie B. Osborn	Automobile No. 1900
21	Still	3.40 p m		597	Ida Levin	Harry Peterson
22	147	6.35 a m	6.50 a m	598	Mrs. Megaro	Mrs. J. Di Anton
22	8	1.18 p m	1.30 p m	599	Celluloid Company	Power house
22	227	5.05 p m	5.35 p m	600	Abraham Feinberg	Libbie Temkin
23	721	12.27 p m	12.40 p m	601	Mrs. Otillie Emmie	Mrs. M. Widman
23	227	2.51 p m	3.42 p m	602	Max Gorowitz	John Zelleno
23	553	4.56 p m	5.11 p m	603	False alarm	
23	623	5.34 p m	5.46 p m	604	Samuel Rockaway	Automobile
23	643	9.33 p m	9.49 p m	605	Public Service Corporation	
25	Still	7.37 a m		606	Mr. Gregory	Behr Brothers
25	638	11.45 a m	12.01 p m	607	D. Marks	Mary Costigan
25	598	6.53 p m	7.06 p m	608	Mr. Ridling	Mr. Ridling

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
.....	False alarm	.....	.....	.....	.....
.....	False alarm	.....	.....	.....	.....
323 Springfield ave	Rubbish in cellar	5.00	.....	10000.00	.....
.....	False alarm	.....	.....	.....	.....
154 Market st	Supposed from cigarette	.....	.....	.....	.....
23 Springfield ave	Boys and matches	443.00	.....	11400.00	.....
23 Springfield ave	Boys and matches	.....	20.00	.....	1000.00
31 Springfield ave	Boys and matches	.....	25.00	.....	1000.00
8-12 Comes alley	Rubbish	.....	.....	.....	.....
382 Springfield ave	Careless use of matches	20.00	50.00	11000.00	600.00
45-51 Alpine st	Electric wires	10.00	5.00	4000.00	2200.00
25 North Fourteenth st	Chimney fire	.....	.....	.....	.....
56 Thirteenth ave	Explosion of water back	21.00	.....	10000.00	1200.00
88 Prince st	Cigarette on awning	.....	5.00	.....	1000.00
.....	False alarm	.....	.....	.....	.....
Rear 7 Summer pl	Unknown	60.00	.....	.....	.....
166 Tichenor st	Smoking meat	5.00	5.00	200.00	.....
223 Belmont ave	From candle	.....	.....	5000.00	.....
.....	False alarm	.....	.....	.....	.....
Rear 603 Central ave	Supposed careless use of matches	150.00	.....	.....	.....
Rear 603 Central ave	Supposed careless use of matches	.....	.....	.....	.....
603 Central ave	Supposed careless use of matches	.....	25.00	.....	.....
262 Bank st	Defective flue	150.00	.....	2000.00	.....
262 Bank st	Defective flue	.....	.....	.....	.....
Rear 30 Atlantic st	Boys and matches	35.00	90.00	.....	.....
175 Pennsylvania ave	Soot in chimney	.....	.....	.....	.....
25 Montgomery st	Careless use of matches	45.00	.....	3000.00	.....
63 Boston st	Pot of meat on fire	.....	.....	.....	.....
42 Nassau st	Defective flue	10.00	.....	2500.00	.....
639 South Orange ave	Brush fire	.....	.....	.....	.....
.....	False alarm	.....	.....	.....	.....
Front of 452 Washington st.	Tree afire	.....	.....	.....	.....
84 Thomas st	Soot in chimney	.....	.....	.....	.....
Rear 69 Delancy st	Children and matches	10.00	10.00	50.00	.....
Rear 30 Atlantic st	Boys and matches	.....	43.00	.....	.....
Rear Mt. Pleasant Cemetery	Brush fire	.....	.....	.....	.....
100-102 Jackson st	Soot in chimney	.....	.....	.....	.....
.....	False alarm	.....	.....	.....	.....
145 Miller st	Overheated gas oven	.....	.....	.....	.....
174 Belleville ave	False alarm	.....	.....	.....	.....
13 Sayre st	Soot in chimney	.....	.....	.....	.....
271 Springfield ave	Careless use of cigarette	.....	5.00	1000.00	.....
522 Market st	Spontaneous combustion	.....	147.00	.....	2000.00
Magazine st	Sparks from locomotive	.....	.....	.....	.....
Front of 170 Grafton ave	Back fire	.....	.....	.....	.....
101 Sherman ave	Children and matches	.....	20.00	.....	.....
15 Drift st	Careless use of matches	.....	5.00	.....	500.00
97 Fillmore st	Explosion of ammonia	.....	.....	.....	.....
86-88 Rose st	Careless use of matches	136.00	260.00	5000.00	1000.00
26 Newark st	Fat in stove	.....	.....	.....	.....
256 Belmont ave	Unknown	300.00	99.90	1900.00	500.00
.....	False alarm	.....	.....	.....	.....
88 Wallace st	Careless use of matches	.....	.....	.....	.....
Charlton & Montgomery sts.	Leak in gas main	.....	.....	.....	.....
690 Frelinghuysen ave	Escaping steam	10.00	.....	.....	.....
56 Wallace st	Soot in chimney	.....	.....	.....	.....
100½ Bremen st	Smoky stove	.....	.....	.....	.....

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
May 25	288	7.47 p m	7.54 p m	609	False alarm	
25	547	7.51 p m	8.26 p m	610	Joseph Venpree	Palmierie Mappia
25	31	9.32 p m	9.42 p m	611	Olie Hansen	Olie Hansen
26	Still	10.00 a m		612	Feigenspan Brewing Co	Auto Truck No. 7684
26	541	9.03 a m	9.11 a m	613	D. J. Ryan	Unoccupied
26	628	5.05 p m	5.18 p m	614	H. J. Carroll	H. J. Carroll
26	48	10.54 p m	11.04 p m	615	False alarm	
27	256	1.26 a m	1.41 a m	616	American Hay Co	Out of city
27	271	9.04 a m	9.40 a m	617	Harry Tishkowitz	Charles Kobtz
27	233	10.44 a m	11.53 a m	618	Henry Frey	John George
27	233	10.44 a m	11.53 a m	618	Henry Frey	H. P. Frey
27	233	10.44 a m	11.53 a m	618		J. Holder
28	139	10.22 a m	10.30 a m	619	L. Steiner	J. Weil
28	Still	10.46 a m		620	Flood & Conklin	Philip Lambert
28	567	11.23 a m	11.36 a m	621	False alarm	
28	Still	10.05 p m		622	L. Anderson	Victor Colavito
29	243	10.15 a m	11.45 a m	623	Thomas Knight	Thomas Knight
29	623	1.09 p m	1.24 p m	624	Mr. Heller	National Grocery Co
29	516	2.25 p m	4.15 p m	625	Weiner-Barnet Co	Wiener Barnet Co
29	516	2d alarm		625	Weiner-Barnet Co	Wiener Barnet Co
29	655	5.06 p m	5.15 p m	626	Samuel Leber	
29	538	10.44 p m	11.02 p m	627	D. Mond, agent	John Ontisl
30	574	7.10 a m	7.27 a m	628	John Felsch	L. Seiling
30	Still	2.43 p m		629	Seliga & Barsey	Seliga & Barsey
31	437	3.59 a m	4.30 a m	630	Sterling Meaker Co	Sterling-Meaker Co
31	131	1.55 p m	2.07 p m	631	J. A. Conklin	William Mosher
31	Still	10.30 a m		632	William Saul & Co	Wm. Saul & Co
June 1	233	9.16 a m	9.25 a m	633	John C. Feil	John C. Feil
1	146	11.36 a m	11.52 a m	634	Oscar Gererado	Oscar Gererado
1	59	10.22 p m	10.36 p m	635	Mrs. M. Walsh	Frederick Bunk
1	42	10.59 p m	11.03 p m	636	False alarm	
2	317	12.59 a m	1.11 a m	637	William Gallagher	William Gallagher
2	Still	1.45 p m		638	Moses Mendel	Meiss & Hockberg
2	324	4.42 p m	4.57 p m	639	Moses Mendel	Interstate Map Co
2	Still	9.00 p m		640		
3	727	11.31 a m	11.38 a m	641	German Hospital Ass'n	German Hospital
3	Still	6.05 p m		642	St. Joseph's Church Parish	Newark Evening News
3	565	6.12 p m	6.35 p m	643	Albert Jewell	Fred Jewell
3	Still	10.21 p m		644		Vacant lots
4	Still	1.04 p m		645	Morris Canal Co	
4	4	8.24 p m	8.35 p m	646	Gus Wagner	Gus Wagner
5	526	2.01 a m	2.06 a m	647	False alarm	
5	593	6.14 a m	9.01 a m	648	Igoe Brothers	Igoe Brothers
5	593	2d alarm		648		
5	Still	8.35 a m		649		E. Brown
5	Still	12.03 p m		650	Michael Juliano	Santo Oscolo
5	624	3.42 p m	3.58 p m	651	Ike Shabronsky	David Braver
5	Still	4.45 p m		652	Sophie R. Ledig	Wagon shed
6	532	4.55 a m	5.21 a m	653	Ballantine & Co	Ballantine & Co
6	616	12.52 p m	2.14 p m	654	Louis Kotzin	Louis Kotzin
7	619	12.06 a m	12.14 a m	655	False alarm	
7	Still	1.20 p m		656	Mrs. Bertha Furst	Fivador Svitil
7	543	3.59 p m	4.24 p m	657	Heinz Estate	David R. Dunn & Bro.
7	Still	4.01 p m		658	City of Newark	Engine House No. 4
7	614	4.01 p m	4.17 p m	659	Benry & Metzger	Wm. F. McClelland
7	63	4.06 p m	4.18 p m	660	City of Newark	Public School
7	76	4.07 p m	4.20 p m	661	Pope-Hartford Co	Pope-Hartford Co.

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
	False alarm				
325 Jefferson st	Suspicious	117.50	50.00	2500.00	600.00
80 Tichenor st	Smoking in bed		10.00	1200.00	800.00
Hunterdon & Bigelow sts	Spon. comb. of oily waste	5.00		3000.00	
205½ Chestnut st	Overheated stove	5.00		1000.00	
507 Twelfth ave	Careless use of matches	10.00	5.00	2000.00	500.00
	False alarm				
Townley, N. J.	Out of city				
61 Fairview ave	Careless use of matches	200.00	175.00	7200.00	600.00
685 Hunterdon st	Careless use of matches	777.65	514.00	8000.00	1500.00
685 Hunterdon st	Careless use of matches				
687 Hunterdon st	Careless use of matches				
152 Cabinet st	Unusual steam			5000.00	500.00
207 McWhorter st	Soot in chimney				
	False alarm				
309 South Orange ave	Overheated stove				
289 Sherman ave	Overheated oven		40.00		1000.00
173 South Orange ave	Unknown		5.00		
312-320 Adams st	Explosion of oil furnace	591.00	2410.00	8000.00	4400.00
312-320 Adams st	Explosion of oil furnace				
23 Boston st	Ash box				
109 Albert ave	Careless use of matches		25.00		
69 Hawkins st	Careless use of matches	10.00	15.00	4000.00	500.00
122 Jackson st	Soot in chimney				
357 Oraton st	Rubbish in yard				
Rear 142 First st	Careless use of matches		5.00		
16 Green st	Careless use of matches	20.00			
205 Peshine ave	Unusual smoke				
164 Seventh ave	Chimney				
28 Waydell st	Explosion of lamp		25.00		
	False alarm				
227 Emmett st	Careless use of matches		25.00		1000.00
315-317 Market st	Chimney fire	5.00		16000.00	
315-317 Market st	Chimney fire				
Sixth ave. and Cutler st	Rubbish in sewer basin				
340 Bank st	Broken steam pipe				
37 Wallace pl	Cigarette	25.00		600.00	
240 Emmett st	Soot in chimney				
Oraton st. near Delavan ave.	Rubbish				
River Street bridge	Unknown				
172 Orange st	Gas stove	10.00		6000.00	
	False alarm				
Poinier st. and Avenue A	Careless use of matches	2000.00	18985.54	75000.00	134655.40
158 Baldwin st	Soot in chimney				
140 Bruce st	Rubbish		10.00		
39 Camden st	Smoking	5.00	50.00		
607 South Thirtenth st	Boys and matches				
Bowery and Freeman sts	Crossed electric wires	329.00	788.30	35000.00	6000.00
33 Magnolia st	Careless use of matches	398.20	295.00	3500.00	800.00
	False alarm				
28 Lewis st	Soot in chimney				
36-38 Warwick st	Lightning	25.00	7.50	2500.00	1000.00
225 High st	Lightning				
568 Sprinfield ave	Lightning	20.00	15.00	12000.00	1000.00
Belmont av. & W. Kinney st.	Lightning				
Central ave. and Jay st	Lightning	10.00		1000.00	

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
June 7	Still	4.07 p m		662	Mrs. T. Leek	Mrs. T. Leek
7	424	4.08 p m	4.34 p m	663	St. Michael's Church	St. Michael's Church
7	15	4.55 p m	5.04 p m	664	M. A. Miller	M. A. Miller
7	712	10.15 p m	12.02 a m	665	Union Ice Company	Union Ice Company
8	555	11.51 a m	12.06 a m	666	Ayers Estate	John Cooney
8	437	8.51 p m	10.42 p m	667	American Mono-Service Co.	American Mono-Service Co.
9	147	9.08 a m	9.15 a m	668	False alarm	
9	147	9.35 a m	10.00 a m	669	False alarm	
9	519	11.22 a m	11.38 a m	670	Frederick Neuhaus	Joseph Kronnit
9	63	11.43 a m	11.55 a m	671		
9	231	3.35 p m	4.19 p m	672	Benjamin Atha	Benjamin Atha
9	295	4.06 p m	4.16 p m	673	Peter Stiranka	Harris Perlstein
9	Still	6.15 p m		674	Myron Whish	Emanuel Bonnett
9	631	6.55 p m	7.00 p m	675	False alarm	
10	65	9.06 a m	9.21 a m	676	Ferdinand Baczynski	John Plicsko
10	249	10.09 a m	10.57 a m	677	Mrs. Rosa Mutter	Richard Schumacher
10	544	4.38 p m	4.43 p m	678	False alarm	
10	547	7.04 p m	7.14 p m	679	A. Griffoul & Brothers	A. Griffoul & Brothers
10	59	11.34 p m	11.57 a m	680	H. Stacy Smith	Freight car No. 112
11	Still	1.55 p m		681		L. Rosenbaum
11	732	4.01 p m	4.13 p m	682	Charles Covello	Donato Tortorello
11	Still	8.45 p m		683	Louis Dobbins	Mrs. T. Costello
11	58	11.51 p m	1.31 a m	684	Nathan Gruber	Newark Charcoal Co.
12	54	12.31 a m	12.45 a m	685	F. Jacutz	Frank Slokesl
12	Still	9.30 a m		686		John S. Nicoletto
12	Still	10.30 a m		687	City of Newark	City Hall
12	282	3.19 p m	3.44 p m	688	Herman Faule	M. Goellner
12	57	4.11 p m	4.21 p m	689	T. Lynch	Fence
12	Still	4.15 p m		690		Hollow tree
12	321	7.52 p m	7.58 p m	691	False alarm	
12	469	8.36 p m	8.50 p m	692	Christian Schmidt	Daniel Webster
13	657	9.58 a m	10.13 a m	693	Krueger Brewing Co.	Krueger Brewing Co.
13	611	1.06 p m	1.16 p m	694	Mendel Simon	Samuel Grabencheck
13	285	3.07 p m	3.20 p m	695	False alarm	
13	Still	6.50 p m		696	John G. Merkel	John G. Merkel Co.
13	514	9.34 p m	11.11 p m	697	Stengel & Rothschild	Stengel & Rothschild
14	Still	9.37 a m		698	Harry Heller	Arthur Erb
14	215	10.02 a m	10.10 a m	699	Warren Realty Co.	Chauncey K. Teachman
14	56	11.00 a m	11.39 a m	700	Balbach Smelting & Ref'g Co.	Balbach Smelt'g & Rfg. Co.
14	Still	7.20 p m		701	Frank Eichorn	Mrs. R. Scott
14	64	8.54 p m	9.02 p m	702	L. J. Fenzinski	Mrs. Misinkeyici
14	Still	10.35 p m		703	B. Weiner	Mrs. Sarah Seymour
15	124	8.57 a m	9.05 a m	704	West End B. & L. Ass'n	Vincent Lazella
15	692	9.41 a m	9.51 a m	705	S. K. Seidenberg	S. K. Seidenberg
15	539	10.06 a m	10.15 a m	706	International Motor Co.	International Motor Co.
15	243	2.42 p m	2.51 p m	707	Dometrio Loprete	Vacant lot
16	126	3.22 a m	3.32 a m	708	False alarm	
16	146	3.27 a m	4.25 a m	709	A. M. Bianchi	Viscent & Caraliere
16	538	3.59 a m	4.25 a m	710	Newark Charcoal Co.	Newark Charcoal Co.
16	218	9.46 a m	9.59 a m	711	William J. Douglas	John Spurge
16	232	12.35 p m	12.45 p m	712	Aaron Kessel	Chicken coop
16	654	3.00 p m	3.03 p m	713	False alarm	
16	714	9.50 p m	10.05 p m	714	Mrs. Ida Walters	James McLane
17	73	12.28 p m	12.39 p m	715	Salvatore Auria	G. Derose
17	Still	10.10 p m		716	F. M. Crowell	D. S. Sparks
18	551	3.45 a m	3.53 a m	717	Mrs. M. Mager	Shed
18	Still	3.15 p m		718		Rubbish dumps

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
314 Roseville ave	Electric wires	5.00		2500.00	
178 Belleville ave	Lightning	20.00	15.00	12000.00	1000.00
17 Lombardy st	Children and matches	20.00	45.00	6000.00	3500.00
99-103 Newark st	Gas jet	1268.00	225.00	12650.00	26650.00
170½ Van Buren st	Soot in chimney				
Verona ave. and Oraton st	Explosion of paraffine	100.00	492.75		
	False alarm				
	False alarm				
12 Wall st	Mattress near stove		10.00		
Montgomery & Barclay sts	Children and bonfire	10.00		5000.00	
756 High st	Careless use of candle	176.75	49.50	15000.00	14000.00
127 Somerset st	Careless use of matches		15.00		600.00
362 Chadwick ave	Soot in chimney				
	False alarm				
70 Lillie st	Children and matches		10.00		
426 Avon ave	Defective chimney	175.00	35.00	4500.00	800.00
	False alarm				
280 Chestnut st	Mice and matches				
Manufacturers' Railroad	Supposed incendiary				
59 Market st	Cigarette		10.00		2000.00
674 North Sixth st	Children and matches	5.00	10.00	5000.00	500.00
158 Jefferson st	Supposed from matches		15.00		
62 Chapel st	Incendiary	2000.00	2500.00	2500.00	3000.00
13 Passaic ave	Careless use of matches				
36 Cutler st	Careless use of matches	10.00	50.00	12000.00	400.00
Broad st	Careless use of cigarette		23.00		
853 South Nineteenth st	Boy and matches	76.00	5.00	3500.00	400.00
Rear 112 Bowery st	Boy and matches				
Front of 131 Congress st	Supposed children and matches				
	False alarm				
712-714 Summer ave	Broken gas pipe				
75 Belmont ave	Pitch took fire				
214 Court st	Drapery too near stove				
	False alarm				
20-28 Prince st	Children and bonfire				
Main and Kossuth sts	Unknown	1200.00	8184.87	100000.00	322000.00
29 Murray st	Unusual smoke				
173½ Pennsylvania ave	Soot in chimney				
19-21 Ferguson st	Sparks from furnace				
24 Division pl	Soot in chimney				
33 Jones st	Careless use of matches		25.00		
688 Hunterdon st	Soot in chimney				
32 Mt. Prospect ave	Gas stove and turpentine				
21 Hayes st	Bonfire				
556 Ferry st	Cleaning auto with gasolene				
265 Sherman ave	Children and matches				
	False alarm				
7-9 Sheffield st	Unknown	650.00	3625.00	5000.00	4300.00
121-137 Albert ave	Incendiary	5.00		500.00	
21 Breintnall pl	Cigar butt	28.70		3500.00	
Rear 109-111 Waverly ave	Careless use of cigarette				
	False alarm				
54 Summit pl	Oil lamp upset				
72 Seventh ave	Careless use of matches	10.00	18.00	5000.00	400.00
Rear 79 Marshall st	Boy and matches		10.00		
Rear 135 Tichenor st	Unknown				
End of West End ave	Burning rubbish				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
June 18	643	6.57 p m	7.02 p m	719		
18	133	8.38 p m	8.50 p m	720	False alarm	
19	16	12.40 a m	1.01 a m	721	John Browne	John Browne
19	Still	10.36 a m		722	Central Railroad of N. J.	Railroad bridge
19	Still	7.20 p m		723	Henry Stiers	Barge
19	619	11.08 p m	11.24 p m	724	Joseph Gentile	Ernesto Disanto
20	25	3.05 p m	3.19 p m	725	S. Herman	
20	613	7.14 p m	7.21 p m	726	H. Koch	H. Koch
20	462	7.14 p m	7.39 p m	727	George Brown & Co.	George Brown & Co.
20	621	7.20 p m	7.46 p m	728	Public Service Railway Co.	Trolley Car No. 1725
20	56	7.23 p m	7.44 p m	729	George W. Wiedenmayer	Charles Baudendistel
20	76	7.28 p m	7.47 p m	730	H. Shadell	Pope-Hartford Co.
21	611	3.24 p m	3.44 p m	731	Samuel Meyer	Joseph Maiden
21	16	6.18 p m	6.26 p m	732		Amusement hall
21	241	8.16 p m	8.40 p m	733	George Stark	George Stark
22	543	8.20 a m	9.01 a m	734	Hermal Pashkow	Joseph Dasuco
22	551	4.08 p m	4.11 p m	735	False alarm	
22	Still	4.36 p m		736	Brookman Estate	Unoccupied building
22	526	8.46 p m	9.01 p m	737	Essex County	East Side Park
22	721	10.06 p m	10.15 p m	738	R. Tortoriella	Mrs. J. W. Williams
23	Still	2.30 p m		739	Celluloid Mfg. Co.	Celluloid Mfg. Co.
24	Still	2.05 p m		740	Pennsylvania Railroad	Waverly & Passaic R. R.
24	465	3.16 p m	3.28 p m	741	Emily D. Straus	Mrs. J. Seff
24	54	8.46 p m	8.52 p m	742	False alarm	
25	514	4.46 a m	5.07 a m	743	Stengel & Rothschild	Stengel & Rothschild
25	147	4.36 p m	4.41 p m	744	False alarm	
26	295	9.49 a m	10.06 a m	745	Mrs. Mamie Abramson	Mrs. Mamie Abramson
26	48	11.16 a m	11.38 a m	746	M. S. Mork	M. S. Mork
26	211	2.53 p m	3.19 p m	747	George King	Weingarth & Whatton
26	619	3.16 p m	3.20 p m	748	False alarm	
26	41	4.17 p m	4.50 p m	749	M. Cohen	Mrs. Walsh
26	544	6.36 p m	6.52 p m	750	Elizabeth Shilander	Mrs. John Oppenlander
26	Still	8.35 p m		751	Julia Bachman	Anna Ulrich
26	236	8.46 p m	9.25 p m	752	Louis Lewis	Andrew Galatian
27	325	12.43 a m	2.55 a m	753	E. P. Earle	Kent Lamp Co.
27	325	2d alarm		753		C. C. Webb
27	325	2d alarm		753		J. E. Mayer
27	325	2d alarm		753		Hughes & Barkoff
27	325	2d alarm		753		Hedden Iron Co.
27	325	2d alarm		753		Mr. Banks
27	133	1.54 p m	2.03 p m	754	Anna and Marie Smith	Anna & Marie Smith
27	298	4.14 p m	4.23 p m	755	Samuel H. Fink	Meta Barrington
27	549	10.04 p m	11.20 p m	756	Edward Balbach Co.	Edward Balbach Co.
28	655	12.41 a m	12.47 a m	757	Benjamin Cooperman	Benjamin Cooperman
28	728	9.54 a m	10.06 a m	758	Charles G. Thetford	Harry H. Klinger
28	Still	4.30 p m		759	Celluloid Mfg. Co.	Louis Molner
28	695	7.54 p m	8.48 p m	760	Herman C. Schneider	Herman C. Schneider
28	4	8.32 p m	9.02 p m	761	Mennen & Korb	Formacone Mfg. Co.
28	367	9.55 p m	10.39 p m	762	George E. Mausert	Hotel Broad
29	587	2.16 a m	2.44 a m	763	Mt. Zion Baptist Church	Mt. Zion Baptist Church
29	274	10.26 a m	11.13 a m	764	Edmund H. Duchemin	Edmund H. Duchemin
29	296	11.36 a m	11.51 a m	765	Louis Schwartz	Unoccupied
29	469	1.03 p m	1.16 p m	766	Mrs. Amelia Ruff	Chicken coop
29	211	3.12 p m	3.44 p m	767	National State Bank	N. J. Commercial Co.
29	Still	4.00 p m		768	M. Uppercu & Co.	Motordrome
29	133	4.48 p m	4.59 p m	769	False alarm	
29	641	5.04 p m	5.27 p m	770	George Schaefer	Dora Schueler

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
100 Livingston st	Rubbish in yard				
	False alarm				
91 Bleecker st	Careless use of matches		29.10		500.00
Fillmore st	Hot coals from locomotive				
Butterworth Dock	Unknown	500.00	500.00		
196 Bruce st	Mantle from gas light	15.00	13.00	15000.00	
242-248 Washington st	Unusual smoke				
30-34 Wickliffe st	Struck by lightning		10.50		
270 Passaic st	Struck by lightning	25.00	200.00	20000.00	55000.00
Tenth st & Fourteenth ave	Struck by lightning				
618 Market st	Struck by lightning	15.00		5000.00	
309 Central ave	Struck by lightning		35.00		400.00
212 Springfield ave	Gas heater	170.00	65.00	4000.00	5000.00
Washington & Bleecker sts	Rubbish in furnace				
108 Badger ave	Soot in chimney				
127-129 New York ave	Careless use of matches	125.00	100.00	5000.00	
	False alarm				
17 Hamilton st	Rubbish				
Newark, N. J	Children and fireworks				
136 Sussex ave	Smoky stove				
68 Frederick st	Sparks from locomotive				
Niagara st. crossing	Sparks from locomotive				
94 Broad st	Burning sulphur				
	False alarm				
Main and Kossuth sts	Supposed incendiary				
	False alarm				
163 Barclay st	Children and matches	100.00	190.00	4300.00	1000.00
345 Ogden st	Overheated tar kettle				
839 Broad st	Mice and matches		45.00		7000.00
	False alarm				
114 North Canal st	Careless use of matches	186.00	100.00	2000.00	
417 Walnut st	Defective flue				
48 Tichenor st	Supposed incendiary	50.00	25.00	3000.00	800.00
460 Clinton ave	From lamp		250.00		1275.00
18-26 Clinton st	Unknown	4240.00	7855.41	55000.00	18900.00
18-26 Clinton st	Unknown				
18-26 Clinton st	Unknown				
18-26 Clinton st	Unknown				
18-26 Clinton st	Unknown				
18-26 Clinton st	Unknown				
432 Central ave	Curtain and candle		20.00		
79 Chadwick ave	Gas stove				
14-16 Polk st	Oil furnace	504.00		174000.00	100000.00
39 Boston st	Candle and tablecloth		10.00		500.00
116 South Fifteenth st	Boiling wax on gas stove	10.00	5.00	7200.00	1000.00
58 Niagara st	Defective flue				
Rear 514 So. Fourteenth st	Boys and bonfire	75.00	300.00	600.00	500.00
3-5 Burnet st	Unknown	34.00	20.00	8000.00	5000.00
Broad and Lafayette sts	Explosion of oil engine				
192-194 Thomas st	Suspicious	10.00		4500.00	
Rear 25 Schley st	Children and matches	100.00	550.00	150.00	750.00
200 Sherman ave	Careless use of matches	15.00		7800.00	
Rear 250 Woodside ave	Careless use of matches	35.00		125.00	
8 Mechanic st	Careless use of matches	20.00	15.00	10000.00	1000.00
South Orange ave	Careless use of matches				
	False alarm				
48 Jacob st	Spark from charcoal furnace	25.00	10.00	800.00	

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
June 29	Still	7.25 p m		771	Nathan Zemel	In yard
29	Still	8.20 p m		772	Ike Schrier	A. Kaplan
29	469	11.36 p m	11.47 p m	773	False alarm	
July 1	15	12.43 a m	12.56 a m	774	M. N. Schoemaker	Mrs. A. Meeks
1	Still	12.01 a m		775	Feigenspan Brewing Co.	Automobile truck
1	Still	12.30 p m		776	Feigenspan Brewing Co.	Automobile truck
1	611	7.31 p m	8.20 p m	777	Anna Nager	Anna Matthews
1	Still	7.39 p m		778	Gottfried Krueger	Isidore Gaist
1	623	11.10 p m	11.17 p m	779		
2	18	11.28 a m	11.42 a m	780	A. Smith Estate	Hartdegen & Co.
2	28	5.46 p m	5.53 p m	781	Albert J. Simpson	Paddock, Zusi Co.
3	Still	1.15 a m		782	Steve Jasartys	Steve Jasartys
3	27	9.00 a m	9.31 a m	783	Mrs. Amelia J. Kopp	Unoccupied
3	268	9.12 a m	9.31 a m	784	Joseph Planer	Meyer Meinket
3	547	11.01 a m	11.12 a m	785	William Young	Louis Colafon
3	246	1.20 p m	1.33 p m	786	George Stengel & Sons	George Stengel & Sons
3	295	2.38 p m	2.50 p m	787	Charles Spengler	Edward Henry
3	54	4.16 p m	4.28 p m	788	Mary Smith	Barby Blascap
3	827	5.51 p m	6.00 p m	789	Public Service Corporation	Telegraph pole
3	599	8.56 p m	10.50 p m	790	William F. Taylor	William F. Taylor
3	599	2d alarm		790	William F. Taylor	William F. Taylor
4	215	1.51 a m	2.04 a m	791	Mrs. Mary Ward	John Neefe
4	62	2.46 a m	2.52 a m	792	Jacob Amsterdam	Feely & Murphy
4	712	2.58 a m	3.04 a m	793	False alarm	
4	272	9.02 a m	9.31 a m	794	H. Harrison	H. Harrison
4	Still	12.30 p m		795	Patrick Boyle	J. Healy
4	412	12.48 p m	1.03 p m	796	Mr. Robinson	Mrs. S. M. Wahl
4	Still	5.45 p m		797	William Bley	William Bley
4	Still	9.47 p m		798	Newark Telephone Co.	Telegraph pole
4	558	10.11 p m	10.24 p m	799	Miles Quinn	John Manning
5	571	2.08 a m	3.27 a m	800	M. O. Riordan	Riordan Leather Co.
5	39	2.40 a m	3.17 a m	801	Rudolph Furst	L. Herman
5	73	7.29 a m	7.53 a m	802	William A. Lynch	L. Stephenson
5	693	9.35 a m	9.46 a m	803	Morris Golden	George Schenck
5	Still	9.41 a m		804		
5	516	10.23 a m	10.55 a m	805	Filomeo Bessoliere	Filomeo Bessoliere
5	144	11.16 p m	12.13 a m	806	Mr. Friedman	A. & P. Tea Co.
5	473	11.49 p m	12.01 a m	807	False alarm	
6	Still	3.25 p m		808	Lang Estate	J. Schupler
6	416	4.46 p m	4.52 p m	809	False alarm	
6	52	5.00 p m	5.18 p m	810	Paul Ohodnisk	Gleno Wisnewska
6	Still	5.52 p m		811	Augustus Groel	Frank Tilson
6	Still	8.15 p m		812	Wm. S. Wrighter	Frank Bihler
6	712	9.03 p m	9.18 p m	813	F. H. Smith	D. J. Mugler
6	618	9.14 p m	9.30 p m	814	Philip Gruber	Philip Gruber
6	24	11.41 p m	11.51 p m	815	Adolph Hensler	Mrs. Julia Kelly
7	324	12.11 p m	12.28 p m	816	William H. Kirk	Keystone Lodging House
7	141	4.09 p m	4.18 p m	817	Anthony Spallone	C. Fulton
8	62	12.05 p m	12.15 p m	818	Theodore Kaskow	Jochan Makuskwski
8	41	1.12 p m	1.25 p m	819	Joseph Policastro	Patrie Ritzea
8	Still	6.30 p m		820	Public Service Railway Co.	Trolley Car No. 1338
9	16	8.18 a m	9.06 a m	821	E. J. Kelly	O. Schwartz
10	15	10.45 a m	11.12 a m	822	James R. Bradner	R. Schietemann
10	12	6.09 p m	6.18 p m	823	J. W. Hatt	Automatic Skylight Co.
10	591	9.25 p m	9.34 p m	824	William Holz	M. Block
11	45	3.19 a m	4.15 a m	825	Hewes & Phillips	Hewes & Phillips
11	573	2.08 p m	2.19 p m	826	Patrick Keelen	L. Przepise

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
181 Thomas st	Children and matches				
305 Springfield ave	Careless use of matches		15.00		2100.00
	False alarm				
38 Fulton st	Careless use of matches	25.00	20.00	12000.00	1500.00
Lafayette and Mulberry sts	Burning of battery box				
Ferry and Fillmore sts	Defective motor				
31 Rankin st	Unknown	176.00	65.00	4400.00	
264 Ferry st	Defective flue				
168 South Orange ave	Unknown	20.00		4000.00	
677 Broad st	Cigarette thrown from window		5.00		2000.00
173 Somerset st	Backfire on auto		140.00		18500.00
133 Pacific st	Smoking in bed		10.00		700.00
1201 Broad st	Sparks from nearby chimney	85.00		4200.00	
551 Bergen st	Gas iron	30.00	75.00	8000.00	
108 Malvern st	Smoking in bed		40.00		600.00
Weston ave. and P.R.R.	Explosion of metal	50.00	50.00		
67 Waverly ave	Careless use of matches		10.00		
Rear 12 Jackson st	Sparks from chimney				
14th st. near Central ave	Crossed wires				
Thomas and Adams sts	Supposed incendiary	1923.37	878.38	8000.00	6000.00
Thomas and Adams sts	Supposed incendiary				
Rear 1236 Broad st	Careless use of matches	5.00		1000.00	
255 Court st	Careless use of matches				
	False alarm				
359 Madison ave	Boys and matches				
150 Hudson st	Soot in chimney				
56 Oriental st	Boys and sparklers	75.00	179.50	3100.00	1000.00
524 Central ave	Fireworks on awning				
Ferry, opp. Maine st	Careless use of cigarette				
173 Elm st	Sparklers set fire to roof				
South and Jefferson sts	Supposed incendiary	1000.00	2774.19	5000.00	13500.00
69 Tichenor st	Supposed incendiary	328.00	1050.00	15000.00	1500.00
75 High st	Defective flue	47.00		800.00	
13 Clayton st	Careless use of matches		25.00		
Rear 13-15 Comes alley	Rubbish in yard				
365 Chestnut st	Overheated stove	81.00	5.00	2900.00	
149 Bloomfield ave	Cigar butt	323.00	100.00	6000.00	7000.00
	False alarm				
262 Springfield ave	Incendiary				
	False alarm				
63-65 Adams st	Overheated stove	10.00	5.00	4000.00	
1130 Broad st	Defective gas fixture	15.00	10.00		
153 Mulberry st	Soot in chimney				
275 Central ave	Match thrown on awning		12.00		1500.00
674 South Twelfth st	Careless use of matches		60.00		1000.00
78 Bank st	Curtain and gas jet		10.00		2000.00
10-12 Ward st	Careless use of cigarette	50.00	71.00		4000.00
72 Park ave	Boys and matches	10.00		12000.00	
77 Hayes st	Children and matches				
Rear 113 South Canal st	Careless use of candle				
Vesey and McWhorter sts	Controller box				
143 Washington st	Careless use of matches	400.00	3000.00	5000.00	6000.00
548 Broad st	Defective flue	130.00	112.85	1500.00	2700.00
101 Central ave	Explosion of plumber's furnace				
104 McWhorter st	Charcoal furnace upset	10.00		7000.00	
1-21 Orange st	Sparks from cupola	886.00		20000.00	23300.00
302 Oliver st	Overheated stove	10.00	10.00	2000.00	500.00

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
July 11	671	4.08 p m	4.21 p m	827		Vacant lot
11	686	10.31 p m	10.41 p m	828	A. Laskowitz	C. Rickershauser
12	684	12.28 a m	12.39 a m	829	Mrs. Dimond	Mr. Aronoff
12	525	1.05 a m	1.54 a m	830	Mutual B. & L. Assn.	Unoccupied factory
12	226	5.25 p m	5.34 p m	831	Thomas Pruitt	John Shapot
13	128	3.46 a m	3.55 a m	832	False alarm	
13	281	11.38 a m	12.20 p m	833	Essex County Brewery	W. Hewring
13	613	8.27 p m	9.10 p m	834	Henry Koch	Henry Koch
13	281	10.35 p m	10.44 p m	835	Joseph Laudano	Joseph Laudano
14	661	9.10 a m	9.49 a m	836	John G. Reichstetter	Chicken coop
14	232	9.45 a m	9.54 a m	837	Morris Rachlin	Morris Moskowitz
15	34	10.21 a m	10.35 a m	838	Seneca Realty Co.	Edwin Abel
15	Still	11.53 a m		839	James Ahearn	H. Hart
15	671	2.59 p m	3.20 p m	840		
15	513	8.25 p m	8.38 p m	841	Tony Capone	Tony Capone
16	38	1.19 a m	2.00 a m	842	Mr. Osborn	Schlosser & Hellthal
16	551	3.51 a m	4.53 a m	843	City of Newark	Public school
16	Still	9.00 a m		844		
16	Still	11.53 a m		845	Leonhard Scheiner	John Decker
16	Still	2.35 p m		846	Doctor Ward	Vacant lot
16	642	9.02 p m	9.11 p m	847	Public Service Railway Co.	Trolley Car No. 1736
17	128	12.40 a m	12.45 a m	848	False alarm	
17	525	2.11 a m	4.21 a m	849	Mutual B. & L. Assn.	Unoccupied
17	52	9.51 a m	10.12 a m	850	L. Greifinger	N. Gold
17	146	8.25 p m	8.35 p m	851	City of Newark	Seventh Avenue School
17	529	8.58 p m	9.14 p m	852	Central R. R. of N. J.	Lehigh & Wilkesb're Coal Co.
18	624	9.58 a m	10.02 a m	853	Blasberg & Zeigler	H. S. Titman
18	Still	10.45 a m		854	Dr. George Polaner	Frank Ford
19	732	6.54 a m	7.20 a m	855	Angilo Petenato	Angilo Petenato
19	Still	1.05 p m		856	City of Newark	Canal bridge
19	141	5.32 p m	5.54 p m	857	Victale Trorrsana	Mrs. C. Brinasda
19	452	5.42 p m	6.40 p m	858		Out of city
19	354	8.01 p m	8.35 p m	859	Eugene Beck	Philip Trachman
20	Still	4.25 p m		860		Charles Zenglein
20	219	6.36 p m	6.43 p m	861	Adolph Fisch	Unoccupied store
20	729	9.18 p m	9.28 p m	862	George Muller	Mrs. C. Huebner
21	451	6.55 a m	7.01 a m	863	False alarm	
21	Still	8.15 a m		864		Vacant lot
21	274	11.41 a m	11.52 a m	865	N. Gougerty	Vacant lot
21	732	1.04 p m	1.26 p m	866	E. M. Waldron	E. M. Waldron
21	Still	2.47 p m		867		City dumps
21	34	6.54 p m	7.05 p m	868	T. Kraft	T. Kraft
21	469	8.05 p m	8.21 p m	869	James Pope	Mt. Prospect Garage
22	42	7.55 a m	9.17 a m	870	Merchants' Refrigerating Co.	Merchants' Refrigerating Co.
22	271	9.45 a m	9.51 a m	871	Herman Schreider	David Kagel
22	626	2.08 p m	2.15 p m	872		Benjamin Goldberg
22	697	2.52 p m	3.02 p m	873	False alarm	
22	138	8.56 p m	9.16 p m	874	Michael Tellone	K. Kadesha
23	Still	11.55 a m		875		Brush fire in vacant lot
23	Still			876	Pennsylvania Railroad	Railroad trestle
23	613	5.07 p m	5.18 p m	877	John Pfeifer, agent	Mrs. Minnie Leray
24	721	12.34 a m	12.42 a m	878	False alarm	
24	614	4.49 a m	4.56 a m	879	Emanuel Fantl	August Kreyer
24	324	4.12 p m	4.18 p m	880	H. F. Kerk	Keystone Lodging House
24	654	4.22 p m	4.27 p m	881	G. Krueger	F. L. Feind
24	614	9.41 p m	9.57 p m	882	Filliger & Craig Co.	Filliger & Craig Co.
24	451	11.59 p m	12.11 a m	883	Morton Brothers	Mrs. Lattery

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
Lenox st and Sandford ave	Grass fire				
377a Springfield ave	Burning rags on shovel				
80 Morton st	Lamp upset				
29 Avenue C	Incendiary	75.00		2500.00	
1 Poinier st	Boys and matches	25.00		4000.00	
	False alarm				
235 Hawthorne ave	Burning rubbish	150.00	75.00		
32-34 Wickliffe st	Short circuit on auto	175.00	962.16	11000.00	1750.00
214 Hawthorne ave	Broken gas fixture	5.00		8000.00	
Rear 601 South Orange ave	Bonfire	262.00	50.00	500.00	
260 Prince st	Spark from charcoal iron				
19 Cottage st	Fumigating				
17 Jefferson st	Defective flue				
Rear 33 Geneva st	Brush fire				
139 Hamburg pl	Leak in gas pipe	10.00		2200.00	
274 Market st	Electric wires	30.00	812.00	1000.00	3000.00
South and Hermon sts	Defective wires	401.10	36.70	28000.00	2400.00
Grafton & Mt. Prospect aves	Brush fire				
268 Park ave	Meat on range				
Rear 130 Chancellor ave	Brush fire				
Bergen and Waverly aves	Motor under car				
	False alarm				
29 Avenue C	Incendiary	1945.65	10.00	10300.00	
120 Ferry st	Gas plate	550.00	1500.00	3500.00	2400.00
134 Seventh ave	Photographer's flash light				
Market st	Spark from locomotive				
438 Bank st	Oil stove exploded		17.50		1000.00
79 Elm st	Soot in chimney				
558 North Ninth st	Careless use of matches	5.00		400.00	
Washington st	From smoking				
104 Garside st	Children and matches	15.00	79.50	3000.00	800.00
Kearny, N. J.	Unknown				
34-36 Commerce st	Unknown	275.00	693.50	10000.00	8600.00
266 South Seventh st	Unknown	5.00			
84 Springfield ave	Cigar butt on awning		25.00		
228 Second st	Cigar butt on awning	20.00		3500.00	
	False alarm				
Mt. Prospect opp. Delv'n av	Brush fire				
130 Fabyan pl	Brush fire				
Delavan av. & Seventh st	Children and matches	15.00			
West End av. & Valley st	Rubbish				
Rear 28 Franklin st	Watchman pulled box				
Rear 671 Mt. Prospect ave	Head of matches in can gasolene			11700.00	
49-51 River st	Gasolene torch	2525.00		65000.00	
100 Magnolia st	Rubbish in yard				
127 Spruce st	Children and matches		18.00		400.00
	False alarm				
38 North Fourteenth st	Leaky gas meter	5.00		5000.00	
Frelinghuysen ave & P.R.R.	Sparks from locomotive				
St. Charles st. crossing	Sparks from locomotive				
86 Wickliffe st	Smoky stove				
	False alarm				
533 Springfield ave	Leaky gasolene tank	25.00	10.00	2500.00	
12 Ward st	Careless use of cigarette				
76 Belmont ave	Explosion of chemicals				
52-58 Skinkle st	Careless use of cigarette	10.00		2000.00	
29 Atlantic st	Cigar butt under stoop				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
July 25	38	3.00 a m	3.11 a m	884	Baker Printing Co.	Baker Printing Co.
25	257	3.37 a m	4.05 a m	885	Charles Smith	Charles Smith
25	593	9.57 a m	10.08 a m	886	Joseph Liebstein & Sons	Joseph Liebstein & Sons
25	426	1.38 p m	1.47 p m	887	Aaron Ward	Mrs. Palelor
25	413	4.05 p m	4.19 p m	888	Frederick W. Schmidt	Frederick W. Schmidt
25	21	5.29 p m	5.59 p m	889	Murray Brothers	P. Koveleotes
26	698	5.43 a m	6.08 a m	890	Kraeuter & Co.	Kraeuter & Co.
26	565	10.04 a m	10.48 a m	891	E. H. McCormick & Sons	E. H. McCormick & Sons
26	164	2.03 p m	2.17 p m	892	Lackawanna Railroad	Railroad ties
26	128	2.42 p m	2.50 p m	893	False alarm	
26	539	10.40 p m	11.06 p m	894	John Rice	John Rice
26	164	11.01 p m	11.13 p m	895	Lackawanna Railroad	Railroad ties
27	426	12.35 a m	1.12 a m	896	False alarm	
27	619	4.15 a m	4.27 a m	897	D. Como	A. Sapoto
27	679	7.32 p m	7.45 p m	898	Morris Rachlin	L. J. Friedman
28	Still	5.00 p m		899		Mark Haucher
28	297	6.28 p m	6.46 p m	900	Jacob Goose	Jacob Goose
28	697	8.29 p m	8.41 p m	901	False alarm	
29	14	7.38 a m	8.10 a m	902	A. Boyd	H. L. Atkins
29	Still	1.45 p m		903	Lewis Kessler	Lewis Zeidman
29	Still	6.54 p m		904	Mrs. Mills	
30	283	3.09 a m	3.17 a m	905	J. T. Castles & Co.	Automobile No. 28032 N. J.
30	Still	4.31 p m		906		
31	587	2.35 a m	2.50 a m	907	J. L. Armitage & Co.	J. L. Armitage & Co.
31	623	8.50 a m	9.14 a m	908	Nettie Karph	Adolph Karph
31	Still	9.15 a m		909	Nathaniel Zemel	Mrs. Allot
31	659	10.56 a m	11.05 a m	910	Ida Baldwin and others	Johnston & Murphy
31	Still	12 noon		911	Mr. Laike N. Y. C.	Vacant lots
31	697	1.02 p m	1.10 p m	912	Philip Dilly	A. Poliakoff
31	37	2.11 p m	2.37 p m	913	Richardson Estate	M. Alexander
31	56	2.16 p m	2.52 p m	914	George W. Weidenmayer	Samuel Wasserman
31	8	3.46 p m	4.02 p m	915	Thatcher Furnace Co.	Thatcher Furnace Co.
Aug. 1	529	1.00 a m	1.16 a m	916	False alarm	
1	738	1.42 a m	2.24 a m	917	Antorio Morinoeno	Antorio Morinoeno
1	Still	3.10 p m		918	Newark Metal Bed Co.	Automobile No. 14155
1	138	4.01 p m	4.21 p m	919	Robert Thorpe	Charles Wehm
1	61	4.05 p m	4.25 p m	920	J. Hausman	R. Rothstein
1	588	4.06 p m	4.25 p m	921	Mrs. A. Ayasse	Chas. C. Tischbiereck
1	587	4.07 p m	5.47 p m	922	Max Silverman	Royal Cleaning & Dyeing Co.
1	365	4.08 p m	4.34 p m	923	False alarm	
1	23	4.09 p m	4.25 p m	924	Baumann & Allendorf	R. H. Thompson
1	54	5.10 p m	5.20 p m	925	Fidelity Trust Co.	Louis Horwitz
2	68	9.02 a m	9.27 a m	926	Bernard Brody	Jacob Chesler
2	684	10.02 a m	10.34 a m	927	Isadore Kaplan	H. Palley
2	38	10.39 a m	10.44 a m	928	Casebolt Estate	A. C. Courter & Co.
2	698	12.14 p m	12.25 p m	929	Michael Peck	Michael Peck
2	Still	2.20 p m		930		Vacant building
2	14	3.19 p m	3.29 p m	931	Mr. Fisher	
2	Still	5.10 p m		932	J. N. Glass	Maxi Company
2	421	11.04 p m	11.11 p m	933	Henry Coleman	Pietro Castanzo
3	232	12.10 a m	12.18 a m	934	Hyman Rachlin	Mrs. Annie Goldberg
3	Still	11.30 a m		935	Essex County	Weequahic Park
3	Still	2.00 p m		936	John Lever	Peter R. Curtis
3	354	6.20 p m	7.15 p m	937	Feist & Feist	J. Cohen
3	354	6.20 p m	7.15 p m	937	Rosensohn & Katz	C. Friedman
3	354	6.20 p m	7.15 p m	937	Mr. Bloom	J. Watnick
3	Still	7.33 p m		938	Meyer Denmark	Meyer Denmark

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
69 Clinton st	No cause				
870 Hunterdon st	Unknown	10.00			
141 Vanderpool st	Sparks from smoke stack				
63 Belleville ave	Children and matches			6000.00	
171 Lincoln ave	Careless use of matches				
188 Market st	From chimney				
571 Eighteenth ave	Flame from oil furnace	60.00	236.00	1000.00	71000.00
Avenue C & Vanderpool st	Spontaneous combustion	225.00	1002.55	30000.00	24000.00
Seventh ave. at Twelfth st	Sparks from locomotive				
	False alarm				
322 Passaic ave	Incendiary	10.00	30.00		400.00
Seventh ave. at Twelfth st	Sparks from locomotive				
	False alarm				
50 Fourteenth ave	Hot ashes	5.00		8000.00	
231 Bruce st	Child and matches		100.00	8500.00	
839 South Twelfth st	Struck by lightning				
419 Ridgewood ave	Children and matches	28.00	55.00	6000.00	
	False alarm				
111 Academy st	Defective oven	61.50	10.00	4500.00	
220 Charlton st	Explosion of oil stove	74.00	50.00	1000.00	400.00
30-32 Lincoln ave	Struck by lightning	20.00		12000.00	
Avon and Treacey aves	Back fire				
Mountainview pl & City Line	Brush fire				
54 Dawson st	Spon. comb. of rubbish				
124 Newton st	Supposed from smoking	970.00	105.00	6500.00	2500.00
181 Thomas st	Soot in chimney				
42 Lincoln st	Electric iron		10.00		
Bet. Montclair av & Irv'g st	Brush fire				
303 Springfield ave	Cigarette on awning	30.00	65.00	8000.00	3000.00
50-58 Columbia st	Careless use of matches				
572 Market st	Careless use of matches	105.00	50.00	9000.00	1000.00
36 St. Francis st	Sparks from cupola				
	False alarm				
566 North Ninth st	Explosion of lamp	300.00	176.00	1000.00	500.00
Plank Road	Ignition of gasolene				
382 Park ave	Struck by lightning	25.00		5000.00	
134 Springfield ave	Struck by lightning				
465 E. Ferry st	Struck by lightning	10.00		10000.00	
212-214 Thomas st	Struck by lightning		80.25		2500.00
	False alarm				
78 Court st	Struck by lightning	110.00	137.00	40000.00	2000.00
509 Market st	Explosion of oil lamp		15.00		
277 Eighteenth ave	Child and matches	265.00	350.00	28000.00	800.00
115 Broome st	From range	10.00		6000.00	
110 Mulberry st	Burning rubbish in furnace				
685-687 South Sixteenth st	Children and matches		25.00		1300.00
157 Mulberry st	Defective chimney				
58 Warren st	Rubbish in cellar				
228 High st	Unusual smoke				
63 Orange st	Explosion of wax on machine				
5 Hillside pl	Curtain near gas stove		3.00		500.00
Newark, N. J.	Brush fire				
73 Halleck st	Unknown		5.00		500.00
38 North Canal st	Incendiary	840.00	1500.00	7000.00	2000.00
36 North Canal st	Incendiary		25.00		
40 North Canal st	Incendiary		25.00		
488 Eighteenh ave	Drapery in show window		10.00		1000.00

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Aug. 4	34	3.45 a m	4.47 a m	939	John Davidson	John Davidson
4	Still	1.16 p m		940	Briscoe Mfg. Co.	Unoccupied shed
4	515	3.58 p m	4.18 p m	941	A. Fink & Sons	Automobile No. 13763
5	26	12.24 a m		942	False alarm	
5	587	12.42 a m	12.56 a m	943	Siemon & Elting	Vacant
5	72	1.11 a m	1.33 a m	944	Mrs. Rossona	Rocco Venello
5	737	7.18 a m	7.35 a m	945	Vincenzo Filippone	Vincenzo Filippone
5	141	1.41 p m	2.55 p m	946	Carmine Delguercio	Lolo Wells
5	141	1.41 p m	2.55 p m	946	Carmine Delguercio	Julius Sermon
5	141	1.41 p m	2.55 p m	946	Carmine Delguercio	Ralf Fucitollo
5	141	1.41 p m	2.55 p m	946	Carmine Delguercio	Tony Martell
5	141	1.41 p m	2.55 p m	946	Carmine Delguercio	Carmine Del Guercio
5	141	1.41 p m	2.55 p m	946	Carmine Delguercio	Meyer Ternage
5	141	1.41 p m	2.55 p m	946	Carmine Delguercio	John Allen
5	137	8.12 p m	8.25 p m	947	Edward Weiss	Edward Weiss
6	231	8.20 a m	9.08 a m	948	Max Gorewitz	Israel Tarskes
6	562	8.48 a m	9.05 a m	949	Antone Cassulle	Antone Cassulle
6	538	5.04 p m	5.23 p m	950	Central Iron Foundry	Central Iron Foundry
6	Still	5.53 p m		951	Public Service Corporation	Trolley car No. 2278
6	31	6.14 p m	6.38 p m	952	William Fairlie	Manufacturers' Can Co.
6	249	8.09 p m	9.00 p m	953	John Taylor	William Koehn
7	54	8.06 p m	8.50 a m	954	Balbach Refining Co.	Balbach Refining Co.
8	Still	1.38 p m		955	Abraham Silverman	Abraham Silverman
8	232	7.43 p m	7.55 p m	956	Alfred Popik	Morris Lozowich
8	626	9.56 p m	10.26 p m	957	Isidor Sempliner	Samuel Schorman
9	425	3.21 a m	3.37 a m	958	V. Green	V. Green
9	51	8.59 a m	9.09 a m	959	E. H. McCormick	Roberts Printing Ink Co.
9	712	9.25 p m	9.35 p m	960	Mrs. Stern	William Purington
9	Still	12.24 p m		961	L. Gaeifinger	R. Stegman
10	571	3.16 a m	3.41 a m	962	James E. Robinson	James E. Robinson
10	Still	2.56 p m		963	Sterling Leather Co.	Sterling Leather Co.
10	Still	3.35 p m		964	Pennsylvania Railroad Co.	Railroad bridge
10	231	4.02 p m	4.15 p m	965	Gash & Lefkowitz	Morris Silberman
10	64	5.54 p m	6.22 p m	966	Eagle Brewing Co.	Frank Schukman
11	543	1.30 a m	1.35 a m	967	S. Prassner	Joseph Bowen
11	129	1.50 a m	2.10 a m	968	Angelo Prisamone	I. M. Jacobus
11	Still	7.57 a m		969	Dr. H. Ost and Rev. D. Browne	A. Martin
11	286	1.47 p m	1.51 p m	970	A. Mueller	M. E. Morgan
12	134	2.15 a m	2.38 a m	971	Hooten Chocolate Co.	Hooten Chocolate Co.
12	Still	11.35 a m		972	Unknown	Empty lots
13	Still	6.10 a m		973	Mrs. Hoyte	Mrs. Taylor
13	Still	10.57 a m		974	S. Kaufman	
13	Still	11.04 a m		975	H. Levitt	John Barron
13	52	11.20 a m	11.39 a m	976	H. Levitt	John Barron
13	52	11.20 a m	11.39 a m	976	H. Levitt	Vacant
13	28	4.07 p m	4.25 p m	977	Walter S. DeRowde	Norman Crowhurst
14	661	2.20 a m	2.48 a m	978	Public Service Railway Co.	Car barns
14	232	7.56 a m	2.15 a m	979	Harris Jossman	Morris Liperwitz
14	Still	9.00 a m		980	Goerke & Co.	Essex Amusement Co.
14	288	12.06 p m	12.52 p m	981	Bernstein Bros.	Bernstein Bros.
14	Still	5.15 p m		982	Patrick Reilly	Bale of hay in street
15	514	7.35 a m	7.49 a m	983	Jacob Slockinger	Elizabeth Rehe
15	579	10.34 a m	11.12 a m	984	Anton Steines	Conrad Iffland
15	579	10.34 a m	11.12 a m	984	Anton Steines	Joseph Knapp
15	143	2.43 p m	3.03 p m	985	D. A. Gottwalt	Chas. H. Casterlin
15	243	4.30 p m	4.43 p m	986	Loy & Nawrath Co.	Loy & Newrath Co.
16	643	10.35 a m	10.49 a m	987	August Kuchner	George Scudder

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
11 Vesey st	Careless use of cigar butt	500.00	200.00		
Rear 160 Central ave	Careless use of cigarette				
Pacific st. and New York av.	Smoking on seat of auto		329.00		1700.00
	False alarm				
203 Thomas st	Incendiary				
146 James st	Unknown	82.00	116.35	5000.00	500.00
451 North Fifth st	Child and matches	30.00	125.00	2500.00	1500.00
78 Stone st	Explosion of oil stove	1675.00	575.00	9000.00	
78 Stone st	Explosion of oil stove				
78 Stone st	Explosion of oil stove				
78 Stone st	Explosion of oil stove				
78 Stone st	Explosion of oil stove				
78 Stone st	Explosion of oil stove				
78 Stone st	Explosion of oil stove				
384 Warren st	Film caught fire		200.00		
103 Monmouth st	Careless use of matches	396.00	150.00	5500.00	400.00
94 Jackson st	Children and matches				
Lockwood st. & Morris canal	Sparks from cupola				
Springfield & Belmont aves.	Defective insulation				
430-436 Mulberry st	Soot in stack				
778 South Fifteenth st	Mice and matches	632.00	800.90	1500.00	800.00
Jackson st & Passaic River	Cigarette butt	200.00		4000.00	
276 Ferry st	Unknown	5.00	20.00	3000.00	1000.00
203 Livingston st	Supposed from candle	78.00	261.38	4000.00	800.00
80 Monmouth st	Smoking in bed	24.00	65.00	2000.00	500.00
93 Passaic st	Escaping steam				
72 Union st	Overheating of material				
142 Norfolk st	Oil lamp exploded	10.00	5.00	4000.00	
128 Ferry st	From gas stove	15.00		5000.00	
Jefferson and South sts	Incendiary	25.00			
329 Frelinghuysen ave	Pile of rubbish				
Plank Road	Locomotive sparks				
95 Monmouth st	Cigarette butt	15.00	17.50	22500.00	300.00
15 Jones st	Children and matches	10.00	25.00	1500.00	500.00
166 New York ave	From gas jet	15.00		3000.00	
73 Cutler st	Supposed incendiary	7.00		2500.00	
585 Springfield ave	Soot in chimney				
368 Avon ave	Children and matches		5.00		300.00
351-353 North Fifth st	Sprinkler system disarranged				
Eighteenth st. near 11th ave.	Boys and rubbish				
127 Adams st	Smoky stove				
Rear 499 Market st	Kerosene on fire				
58 Jefferson st	Smoke from stove				
58 Jefferson st	Smoke from stove	10.00		1000.00	
56 Jefferson st	Smoke from stove				
146 Sherman ave	Overheated food				
So. Orange av. & 19th st	Electric wires				
113 Waverly ave	Child and matches	145.00	150.00	10000.00	600.00
519 Central ave	Oily waste				
216 Frelinghuysen ave	Overheated daub				
20 Hermon st	Careless use of matches				
86 Kossuth st	From smoking	10.00	5.00	1400.00	
366 Ferry st	Painter's torch	225.00		1500.00	
368 Ferry st	Painter's torch				
Rear 70 South Eighth st	Defective chimney	46.00		1500.00	
21-29 Runyon st	Sparks from torch				
116 Belmont ave	Carelessness with benzine				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Aug. 16	Still	1.30 p m		988	E. C. Levy & Co	Carpenter wagon
16	324	5.15 p m	5.34 p m	989	Ward Realty Co	Nagle Packing Co
16	642	7.24 p m	7.54 p m	990	Charles Stamberg	Arthur Henderson
16	642	7.24 p m	7.54 p m	990	Charles Stamberg	Wilbur Smith
16	Still	7.35 p m		991	E. J. Maier, agent	Vacant lots
17	128	2.16 p m	2.27 p m	992	Sinnott & Dean, agents	Gas pipes
18	562	5.30 a m	5.39 a m	993	S. Pusckos	Michael Vinsock
19	263	5.16 a m	5.52 a m	994	Lehigh Valley R. R. Co	Freight shed
19	619	9.35 a m	9.39 a m	995	False alarm	
20	233	12.06 a m	12.31 a m	996	Lewis Lewis	Gosdnas, Widmer & Co
20	56	1.39 a m	2.19 a m	997	Joseph Gowde	John Lewisky
20	56	1.39 a m	2.19 a m	997	Joseph Gowde	J. Kilian
20	39	9.49 a m	10.00 a m	998	E. E. Bond Estate	B. McMaran
20	Still	1.08 p m		999	Unknown	Vacant lot
20	Still	2.15 p m		1000	Trinity Church	Church
21	539	2.31 a m	2.49 a m	1001	M. Leveen	Unoccupied
21	63	6.08 a m	6.14 a m	1002	False alarm	
21	Still	10.55 a m		1003	Mrs. Troscher	Mrs. Vreeland
21	232	12.20 p m	12.31 p m	1004	Abraham Feinburg	Gandel Brothers
21	314	12.55 p m	1.07 p m	1005	Meyer Newman	S. Kraemer
21	Still	1.45 p m		1006	Trinity Church	Church chapel
21	41	6.12 p m	8.01 p m	1007	Art Metal Works	Art Metal Works
21	41	2d alarm		1007	Art Metal Works	Art Metal Works
21	Still	7.20 p m		1008	Estate of Debow & Beghte	Debow & Company
21	225	7.36 p m	7.58 p m	1009	Frederick Nuse & Sons	Automobile truck
21	587	7.59 p m	8.06 p m	1010	False alarm	
22	539	4.02 a m	6.42 a m	1011	Farmers' Feed Co	Farmers' Feed Co
22	679	4.20 a m	4.40 a m	1012	Abraham Satz	Charles Devine
22	469	1.25 p m	1.35 p m	1013	Kirkman & Co	Auto truck No. 25372
23	6	5.44 p m	5.51 p m	1014	False alarm	
23	236	7.34 p m	7.48 p m	1015	Christian Schmidt	Thomas A. Smith
23	663	8.32 p m	8.46 p m	1016	Cornelius Scully	Cornelius Scully
24	Still	8.40 a m		1017	Morris Minaroff	F. Reichert
24	Still	5.00 p m		1018	Mr. Helm	George Colias
24	23	7.33 p m	8.03 p m	1019	C. S. McGuire	Various occupants
25	143	11.00 a m	11.47 a m	1020	James Meehan	James Meehan
25	25	11.54 p m	12.08 a m	1021	L. Pennington	Joseph Parker
26	62	2.04 p m	2.09 p m	1022	False alarm	
26	575	7.46 p m	8.02 p m	1023	Central Stamping Co	Central Stamping Co
27	516	1.44 a m	1.53 a m	1024	False alarm	
27	36	11.52 p m		1025	A. Tiraco	Daniel Esposito
28	218	11.09 a m	11.18 a m	1026	Mr. Veiling	Mrs. Scacina
28	212	1.39 p m	1.52 p m	1027	Seiler Brothers	Rachel Williams
29	Still	12.15 a m		1028	Mrs. William Schafer	Joseph Japobzyk
29	551	11.14 a m	11.23 a m	1029	Anglo-American Varnish Co	Anglo-Amer. Varnish Co
29	598	4.50 p m	5.02 p m	1030	Mrs. Kate Roeland	Mrs. Kate Roeland
30	Still	1.18 p m		1031	Henry Kline	Henry Hill
30	618	3.51 p m	4.05 p m	1032	Sam Katz	Mrs. Karcher
30	655	4.06 p m	4.20 p m	1033	George Kerwin	George Kerwin
30	623	7.11 p m	7.23 p m	1034	False alarm	
30	126	8.44 p m	9.09 p m	1035	Consolidated Bottling Co	Consolidated Bottling Co
31	7	4.19 a m	5.50 a m	1036	John J. Brady	John J. Brady
31	7	4.19 a m	5.50 a m	1036	Peter F. Cunningham	Peter F. Cunningham
31	7	4.19 a m	5.50 a m	1036	Mrs. Mary Ritt	Joseph Reilly
31	7	4.19 a m	5.50 a m	1036	R. Trivett	Charles Quinzel
31	7	4.19 a m	5.50 a m	1036	R. Trivett	J. J. McKinley
31	7	4.19 a m	5.50 a m	1036	Thomas F. Rowe	Thomas F. Rowe

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
Frelinghuysen ave. dumps	Shavings in wagon				
41 Ward st	Locomotive sparks	20.00		2000.00	
263 Waverly ave	Spontaneous combustion	88.50		8000.00	
263 Waverly ave	Spontaneous combustion				
Washington av. & Irving st.	Matches in brush				
3 Boyden st	Escaping gas				
5½ Clover st	From candle				
Rear 100 Poinier st	Careless use of matches	750.00	196.75		
	False alarm				
456 Clinton ave	Gas light near woodwork	10.00	20.00	3000.00	2500.00
69 Ferguson st	Unknown	125.00	25.00	5500.00	
71 Ferguson st	Unknown				
417 Mulberry st	Locomotive spark	26.55	30.00	3000.00	1500.00
Osborne ter. & Scheerer ave.	Boys and rubbish				
24 Rector st	Burning rubbish				
164 Bowery st	Rubbish in cellar				
	False alarm				
126 Boyden st	Children and matches		5.00		
265 Belmont ave	Cigar butt on awning		10.00		
308 Mulberry st	Boys and matches	25.00		5000.00	
Broad st	Burning rubbish				
7-17 Mulberry st	Careless use of matches	2900.00	29230.19	40500.00	125000.00
7-17 Mulberry st	Careless use of matches				
32 Commerce st	Packing over steam pipes				
92 Frelinghuysen ave	Back fire on auto		60.00		3000.00
	False alarm				
Chapel st. & Passaic ave	Incendiary	1900.00	120.00	5000.00	
295 Fifteenth ave	Supposed from smoking	161.00	325.00	8000.00	1000.00
Front of 685 Summer ave	Leaky gasolene tank		149.00		1500.00
	False alarm				
374-380 Jelliff ave	Unusual light				
115 North Munn ave	Kerosene oil lamp upset				
549 Springfield ave	Smoky chimney				
214 Market st	Grease in chimney				
21 Nevada st	Careless use of matches				
177 South Eleventh st	Unknown	600.00	232.00	3000.00	500.00
370 Halsey st	Curtain against lamp		5.00		
	False alarm				
591 Ferry st	False alarm				
	False alarm				
24 East Mechanic st	Careless use of matches		45.00		500.00
24 Brientnall pl	Unusual smoke				
140 Academy st	Boys and matches	60.00	25.00	10000.00	2350.00
163 East Kinney st	Incendiary	5.00			
53 Johnson st	Overheated kettle				
84½ Bremen st	Soot in chimney				
149 Charlton st	Hot iron and curtain		3.00		
683 South Eleventh st	Careless use of maches				
116 Wickliffe st	Looking for gas leak with match	53.00		2000.00	
	False alarm				
331 Orange st	Sparks from locomotive	59.00			
311 Warren st	Unknown	200.00	70.79	15650.00	1100.00
313 Warren st	Unknown	47.50			
315 Warren st	Unknown	130.00			
48 Hartford st	Unknown	230.00	126.99		
309 Warren st	Unknown		35.00		
52 Hartford st	Unknown	527.00			

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Aug. 31	7	4.19 a m	5.50 a m	1036	Thomas F. Rowe	Gorman Mfg. Co
31	7	4.19 a m	5.50 a m	1036	Thomas F. Rowe	W. Downing
31	7	4.19 a m	5.50 a m	1036	Mrs. L. Cook	Morris Demel
31	7	4.19 a m	5.50 a m	1036	Mrs. L. Cook	
31	595	1.19 p m	1.42 p m	1037	Pennsylvania Railroad	Waverly & Passaic Branch
31	68	9.21 p m	9.34 p m	1038	St. Stanilaus Church	Home of Sisters
Sept. 1	129	3.04 a m	3.26 a m	1039	Angelo Primanina	I. Jacobus
1	611	7.35 a m	8.17 a m	1040	Jas. and Fannie Schenkel	J. Schenkel
2	Still	2.18 p m		1041	James Walsh	James Walsh
2	Still	2.40 p m		1042	Edward M. Waldron	Shed
3	Still	9.50 a m		1043	Peter Ulrich	Joseph Ronecker
3	Still	11.25 a m		1044	H. J. Koehler	Healey Contracting Co
4	75	9.40 p m	10.22 p m	1045	False alarm	
4	633	11.34 p m	11.50 p m	1046	Anton Marshall	Anton Marshall
5	614	12.56 a m	1.15 a m	1047	Jacob Chnesir	Jacob Chnesir
6	539	9.07 a m	9.26 a m	1048	Hyman Goldberg	Mr. Jordan
6	Still	12.09 p m		1049	Morris Ninaroff	Frederick Reichert
6	614	12.11 p m	12.28 p m	1050	Morris Ninaroff	Frederick Reichert
6	Still	3.45 p m		1051	Gottfried Krueger	Fred Rudge
6	62	4.52 p m	4.59 p m	1052	Joseph Mann	Samuel Vogel
7	4	7.56 a m	8.03 a m	1053	Coffin Brothers	Coffin Brothers
9	52	6.03 a m	6.11 a m	1054	Newark Spring Mattress Co.	Newark Spring Mattress Co.
9	34	12.30 p m	12.34 p m	1055	False alarm	
9	271	4.36 p m	4.50 p m	1056	Samuel Liebowitz	Samuel Liebowitz
9	35	6.25 p m	6.36 p m	1057	Mary M. Robbins	R. Ziser
9	8	7.21 p m	7.29 p m	1058	Martin Uncklbach	Mrs. Francis McGovern
9	29	10.26 p m	10.40 p m	1059	Estate of James Baird	Miss Jennie E. Baird
10	695	9.32 a m	9.47 a m	1060	Herman C. Schneider	Herman C. Schneider
10	Still	11.25 a m		1061	Wm. C. Walker, agent	Vacant lot
10	354	1.53 p m	2.11 p m	1062	Public Service Corporation	Unoccupied
11	Still	7.40 a m		1063	Mary Donahue	Mary Donahue
11	Still	12.29 p m		1064	Nicola Buccinio	
11	682	2.35 p m	2.41 p m	1065	Mrs. Beyer	Mrs. Beyer
11	Still	3.40 p m		1066	Acme Express Co	Wagon
12	626	8.49 a m	9.05 a m	1067	Mrs. R. Hollander	Jacob Feldman
12	59	10.04 a m	10.12 a m	1068	International Motor Co	International Motor Co
12	237	10.44 a m	10.54 a m	1069	Ward Brower	Dr. Emma A. Rebberd
12	312	10.50 a m	11.04 a m	1070	A. C. Begarow	A. C. Begarow
12	278	1.28 p m	2.05 p m	1071	Pearce Brothers	Pearce Brothers
12	324	3.25 p m	3.41 p m	1072	Pennsylvania Railroad	Electric crane
12	Still	7.41 p m		1073	Lewis Verrone	Frank Fogel
13	Still	12.30 p m		1074	Abraham Lamkin	Edward Hanley
13	626	2.41 p m	2.50 p m	1075	Aaron Fishman	Samuel Jacobs
13	543	7.06 p m	7.20 p m	1076	Frank Carlo	Frank Carlo
13	643	9.56 p m	10.09 p m	1077	False alarm	
14	Still	1.15 p m		1078	M. Manning	F. Smith
14	693	10.16 p m	10.28 p m	1079	J. Mulligan	H. Steinburg
14	147	11.27 p m		1080	False alarm	
15	64	12.48 a m	1.00 a m	1081	H. Goldsmith	F. Woodruff
15	242	1.44 a m	3.52 a m	1082	Ephriam Samuel	Max Rasnick
15	242	1.44 a m	3.52 a m	1082	Gussio Fischkowitz	Aaron Abelovitz
15	426	8.55 a m	9.27 a m	1083	Mr. Schwartz	Mrs. Cimnink
15	651	10.47 a m	11.05 a m	1084	Henry Crum	Henry Crum
15	144	11.00 a m	11.16 a m	1085	Albert H. Meigs	Mr. Adams
15	626	2.21 p m	2.40 p m	1086	Herman Wallach	Herman Wallach
15	Still	2.42 p m		1087	Joseph Wotiz & Son	Automobile No. 9747
15	76	4.58 p m	5.20 p m	1088	William H. Fiedler & Co	Unoccupied

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
Rear 52 Hartford st	Unknown				
Rear 50-52 Hartford st	Unknown		550.00		
Rear 54 Hartford st	Unknown	253.00			
Rear 56 Hartford st	Unknown				
Niagara st. crossing	Sparks from locomotive	10.00			
126 Livingston st	Unusual smoke				
73 Cutler st	Incendiary	25.00		2000.00	
36 Prince st	Defective flue	205.00	45.00	4000.00	1000.00
60 High st	Soot in chimney				
Rear 898 Broad st	Supposed cigarette butt				
17 Sayre st	Soot in chimney				
150 Ogden st	Unnecessary alarm				
	False alarm				
527 South Twentieth st	Out of city				
670 South Twelfth st	Explosion of gas meter	86.00		5000.00	
22½ Richards st	Chimney fire				
549 Springfield ave	Soot in chimney				
549 Springfield ave	Soot in chimney				
252 Hunterdon st	Boys and bonfire in cellar			3000.00	
217 Springfield ave	Unusual smoke				
147 Orange st	Defective flue				
80 Monroe st	False alarm				
	False alarm				
59 Fairview ave	Child and matches				
101 Bruen st	Gas leak and lighted match	3.00		2000.00	
332 Ferry st	Explosion of oil lamp	25.00	35.00	3000.00	
102 Sherman ave	Careless use of matches	7.00		1400.00	200.00
514 South Fourteenth st	Careless use of matches				
Washington & Montcl'r aves.	Brush fire				
22 Boudinot st	Boy and matches				
83 Ferguson st	Chimney				
Rear of 243 Belmont ave	Defective stove pipe				
689 South Twentieth st	Curtain and gas jet		5.00	3000.00	400.00
Mulberry & Market sts	Acid carboy				
166 Spruce st	Careless use of matches	87.00	80.00	3250.00	500.00
560 Ferry st	Can of gasolene				
47-49 Pennsylvania ave	Defective flue	15.00		30000.00	
Rear 946 Broad st	Soldering gasolene tank	10.00	20.00		
768 Frelinghuysen ave	Overheated varnish kettle	75.00	25.00	10000.00	12000.00
Freight yard, Alling st	Electric wires				
209 Charlton st	Lamp and lace curtain				
98 Waverly ave	Soot in chimney				
71 Somerset st	Careless use of candle				
192 Jefferson st	Careless use of matches	40.00	50.00	4000.00	
	False alarm				
112 Hunterdon st	Soot in chimney				
115 West st	Oil lamp upset	25.00	42.00	2500.00	700.00
	False alarm				
66 Rutgers st	Cigar butt				
63 Fairview ave	Careless use inhaling powder	3937.50	1921.10	14000.00	3800.00
61 Fairview ave	Careless use inhaling powder				
27 Rowland st	Boy and matches	350.00	20.00	6000.00	
35 Howard st	Defective flue				
195 Ridge st	Boy and matches	10.00	30.00	72000.00	
98 Monmouth st	Sparks from chimney	15.00		5000.00	
Central av. near 14th st	Spark from exhaust				
Rear 336 Central ave	Boys and matches			5250.00	

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Sep. 15	121	6.58 p m	7.17 p m	1089	Mrs. Sayres	Horace Slocum
15	126	7.10 p m	7.19 p m	1090	False alarm	
15	76	8.47 p m	8.55 p m	1091	False alarm	
15	717	11.51 p m	11.58 p m	1092	False alarm	
16	225	3.06 a m	3.08 a m	1093	False alarm	
16	529	8.04 a m	8.25 a m	1094	Thomas Smith	John J. Turbett
16	633	11.11 a m	11.35 a m	1095	James Castelle	James Castelle
16	241	5.23 p m	7.08 p m	1096	Peter Caille	Cut Leather Company
16	241	5.23 p m	7.08 p m	1096	Morris Hoffman	Morris Hoffman
16	Still	7.30 p m		1097		M. O. Hull
17	684	12.12 a m	2.05 a m	1098	Fanny Goldstein	W. Kantor and others
17	684	12.12 a m	2.05 a m	1098	S. Goldfarb	
17	321	1.40 a m	2.00 a m	1099	Joseph Samuel	Railroad ties in lot
17	78	2.16 a m	2.35 a m	1100	Hugh Smith, Inc.	Hugh Smith, Inc.
17	26	8.20 a m	8.35 a m	1101	False alarm	
17	541	8.51 a m	9.10 a m	1102	Biagio Martino	Mrs. Anna Koops
17	279	1.01 p m	1.16 p m	1103	Rogert Schaller	Charles Bracken
17	685	4.43 p m	4.59 p m	1104	Peter Granata	Morris Borirs
17	Still	5.10 p m		1105	Dr. H. Slappin	Dr. H. Slappin
17	32	9.13 p m	9.20 p m	1106	William Bal., Inc.	William Bal, Inc.
18	Still	6.07 p m		1107	Richardson & Straight	Unoccupied dwelling
18	693	7.24 p m	7.35 p m	1108	M. McNamara	
19	469	8.53 a m	9.08 a m	1109	Clarence Young	Unoccupied dwelling
19	735	5.24 p m	6.36 p m	1110	John McDermitt	Mrs. Mary Kelly
19	637	6.19 p m	9.22 p m	1111	Philip Meck	Philip Meck
19	637	6.19 p m	9.22 p m	1111	B. Jenny	B. Jenny
19	637	6.19 p m	9.22 p m	1111	B. Iusel	B. Iusel
19	677	8.27 p m	8.35 p m	1112	Sam. Unger	Charles Radler
20	229	6.56 a m	7.07 a m	1113	L. Bamberger & Co.	L. Bamberger & Co.
20	722	9.46 a m	9.69 a m	1114	Mrs. Charles Phillips	Mrs. Charles Phillips
20	317	4.38 p m	4.54 p m	1115	False alarm	
20	279	5.01 p m	5.16 p m	1116	Robert Hoffman	Joseph Thomas
20	626	5.06 p m	5.34 p m	1117	Isidore Lustbader	Isidor Sturm
21	57	3.02 a m	3.20 a m	1118	Christian Feigenspan	George Seitwirth
21	539	3.52 a m	4.15 a m	1119	Hyman Goldberg	John Esther
21	Still	10.03 a m		1120	Selig & Rosenthal	J. McCutten
21	29	10.16 p m	10.32 p m	1121	Charles O. Hendrick	Mrs. Sarah Boss
22	555	7.24 a m	7.46 a m	1122	Michael Dunn	Joseph Clapot
22	551	7.31 a m	7.52 a m	1123	Jacob Kiel	Mrs. Yadwiga Phillips
22	12	11.31 a m	11.37 a m	1124	False alarm	
22	412	12.28 p m	12.41 p m	1125	Harry Murrey	Mrs. Randsey
22	615	7.34 p m	7.48 p m	1126	Louis Zapeikov	Max Bolton
23	Still	2.00 p m		1127	Edward Kelly	Nicholas Varney
23	434	6.45 p m	6.54 p m	1128	False alarm	
23	635	7.58 p m	8.07 p m	1129	False alarm	
23	21	7.59 p m	8.05 p m	1130	Parkard Auto Co.	Packard Auto Co.
24	679	8.19 p m	8.25 p m	1131		
23	6	11.04 p m	11.23 p m	1132	Adolph Hollander	M. Rosenblum
24	Still	8.53 a m		1133	James Ellis	James Ellis
24	295	10.26 a m	10.35 a m	1134	Morris Folsman	Harry Warman
24	Still	12.05 p m		1135	Edward Kelly	Thomas Fogarty
24	721	3.58 p m	4.34 p m	1136	Gustave Schene	Emil Schatz
24	624	5.11 p m	5.20 p m	1137	Dickerson & Derres Co.	Automobile Truck No. 10026
24	Still	9.40 p m		1138	T. A. Mayer	Automobile No. 28036 N. J.
24	Still	11.15 p m		1139	Froehlich & Koehler	M. Santlifera & Son
25	614	8.07 p m	8.14 p m	1140	Public Service Corporation	Tool house
25	326	9.48 p m	10.16 p m	1141	Schiman Brothers	Elite Novelty Co.

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
25 South Fourteenth st	Careless use of matches	75.00	110.00	2000.00	
	False alarm				
	False alarm				
	False alarm				
	False alarm				
18 Bowery st	Gasolene torch	25.00	15.00	2000.00	1000.00
496 South Eighteenth st	Children and matches	5.00	25.00		
275 Livingston st	Explosion of alcohol	150.00	14.00		
271-273 Livingston st	Explosion of alcohol				
693 South Twentieth st	Spark from match	5.00	23.00	3500.00	1000.00
129 Prince st	Careless use of matches	625.00	1570.00	8700.00	325.00
131 Prince st	Careless use of matches				
183 Commerce st	Rubbish in lot	50.00			
210-212 Central ave	Spon. comb. of oily rags				
	False alarm	38.00		1000.00	
115 Pacific st	Soot in chimney	50.00	30.00	7500.00	
816 Clinton ave	Child and matches	10.00		9000.00	
266 Fourteenth ave	Children and matches				
18 Hillside pl	Soot in chimney				
2-16 Johnson st	False alarm				
5-7 Randolph pl	Boys and matches	10.00		1200.00	
126 Baldwin st	Broken gas fixture	99.00		4000.00	
227 Woodside ave	Plumber's furn. & paint pot				
53 Hunterdon st	Defective flue	62.50	18.00	5000.00	1000.00
11 Broome st	Unknown				
13 Broome st	Unknown	1973.00	531.00	2500.00	1700.00
15 Broome st	Unknown				
376 South Sixth st	Tablecloth and candle			19500.00	400.00
Halsey and Market sts	Broken sprinkler head				
112 New st	Chimney fire				
	False alarm				
33 Beverly st	Careless use of cigarette	37.00	10.00	4500.00	1000.00
177 Spruce st	Careless use of matches	48.00	100.00	12000.00	400.00
21 Brill st	Rubbish in cellar				
22 Richards st	From smoking	75.00		5000.00	
488 Orange st	No cause				
46 Murray st	Curtain and gas jet				
149 Jackson st	Explosion of kerosene can	98.00	25.00	3700.00	
133 Pennington st	Explosion of kerosene can				
	False alarm				
263 Belleville ave	Rubbish in cellar				
298 Bergen st	Careless use of matches	112.00		9000.00	1000.00
89 Bruce st	Burning soot in chimney				
	False alarm				
	False alarm				
Branford pl. and Halsey st	Unusual smoke				
Fifteenth ave. and Bruce st.	Bonfire in street				
34 Sixteenth ave	Careless use of cigarette	15.00		12000.00	
60 West End ave	Spark from chimney	10.50	5.55	4000.00	1000.00
264 Prince st	Children and matches		.35.00	14000.00	400.00
89 Bruce st	Defective chimney				
65 Newark st	Boy and matches		200.00	1500.00	400.00
Fairmount ave. & Bank st	Gasolene ignited				
Front of 420 Frelinghsn. av.	Gasolene ignited	100.00		3000.00	
224 Market st	Electric iron				
Springfield av. & So. 12th st.	Boys and matches				
102 Murray st	Hot coals from stove				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Sep. 26	Still	2.00 p m		1142	Mr. Ordway	James J. Mooney
26	57	2.31 p m	2.40 p m	1143	Feigenspan Brewing Co.	George Sibaitis
26	128	5.21 p m	5.34 p m	1144	Mike Medo Delogojo	Mike Medo Delogojo
26	151	8.34 p m	9.33 p m	1145	M. Bock	M. Bock
27	Still	1.00 p m		1146	J. E. Garrabrant	Mrs. J. Mee
27	49	9.32 p m	10.12 p m	1147	Elmer Zerbe	Elmer Zerbe
28	Still	6.43 p m		1148	Mr. Morris	Fence
28	271	6.47 p m	7.00 p m	1149	Nelson Zielkiewicz	Abraham Handler
28	697	8.53 p m	8.58 p m	1150	A. & S. Lange	Jacob Zauber
29	633	12.29 a m	3.00 a m	1151	Charles H. Waag	Charles H. Waag
29	633	12.29 a m	3.00 a m	1151	Charles H. Waag	Fred Wied
29	633	12.29 a m	3.00 a m	1151	Christian Feigenspan	Andrew Rodmer
29	73	2.19 a m	2.26 a m	1152	False alarm	
29	615	9.50 a m	10.31 a m	1153	Joseph Osawetzky	Simon Ritsky
29	295	9.54 a m	9.58 a m	1154	Max Lilien	Jacob Kapafosafsky
29	Still	2.56 p m		1155	Mrs. Frances Schaeffer	Frank Carroll
29	Still	7.13 p m		1156		Vacant lots
29	629	8.03 p m	8.20 p m	1157	Mr. Gruber	Elinor Pleasure Club
29	Still	8.50 p m		1158	Frank Herud	Frank Herud
30	13	7.18 a m	7.25 a m	1159	P. Ballantine & Sons	Herbert F. Farrow
30	Still	1.23 p m		1160		Meadows
30	7	6.31 p m	6.36 p m	1161	False alarm	
Oct. 1	568	8.30 a m	8.49 a m	1162	Murphy Varnish Co.	Murphy Varnish Co.
1	317	2.28 p m	2.44 p m	1163	Beckwith, Chandler Co.	Beckwith, Chandler Co.
1	588	3.24 p m	3.40 p m	1164	Mrs. E. F. Fix	Edward Gouillon
1	697	6.38 p m	6.52 p m	1165	Henry Herzfeld	Abraham Seigel
1	Still	7.17 p m		1166	Public Service Corporation	Electric light pole
2	579	8.12 a m	8.25 a m	1167	Newark Sign Co.	Automobile
2	Still	9.36 a m		1168	William Schmidt	Mrs. Charles Doyle
3	38	1.28 a m	2.13 a m	1169	J. W. Morehouse Co.	H. T. Van Sickle
3	231	6.42 p m	6.50 p m	1170	False alarm	
4	159	1.25 p m	1.57 p m	1171	John Connor	Street Miller
4	Still	1.40 p m		1172	Henry Bossert	Mrs. McCleary
4	469	4.08 p m	4.25 p m	1173	Joseph Dewall	Joseph Dewall
4	593	11.37 p m	11.46 p m	1174	False alarm	
5	Still	11.00 a m		1175	J. Ludwig	J. Ludwig
5	63	11.00 a m	11.06 a m	1176	C. A. Mark	Nathan Snyder
5	Still	11.00 a m		1177	Osterstock Estate	Mrs. Williard
5	Still	3.42 p m		1178	J. J. Holle	Automobile No. 9251
5	Still	6.30 p m		1179	Hiram White	Automobile
5	614	9.03 p m	9.12 p m	1180	Public Service Corporation	Trolley Car No. 1728
6	626	10.57 a m	11.50 a m	1181		Abraham Kivtz
6	737	12.19 p m	12.32 p m	1182	Frank Travissano	Charles Owens
6	72	3.42 p m	3.56 p m	1183	Louis Berger, agent	Christopher Falks
6	692	9.25 p m	9.30 p m	1184	Herman Weichold	Dora Bader
7	654	12.22 a m	1.05 a m	1185	Leon Goral	Emil Rosenthal
7	39	2.56 p m	3.26 p m	1186	C. Wittkop & Co.	C. Wittkop & Co.
7	269	8.55 p m	9.05 p m	1187	Isaac Stavitsky	Isaac Stavitsky
8	Still	2.25 p m		1188	Mr. Pappas	Mr. Pappas
8	14	9.03 p m	10.01 p m	1189	Whitehead & Hoag	Whitehead & Hoag
8	679	10.14 p m	10.25 p m	1190	Frank Mastrangelo	Bucci & Jampaglia
9	Still	3.25 p m		1191	B. Schloss	B. Schloss & Co.
10	Still	10.51 a m		1192	Mr. Littleworth	Mr. Fruehling
10	Still	4.40 p m		1193	Celluloid Mfg. Co.	Celluloid Mfg. Co.
10	318	5.50 p m	6.25 p m	1194	Parmelee Hat Co.	Parmelee Hat Co.
10	Still	7.21 p m		1195	Harry Bader	Harry Bader
10	74	7.46 p m	7.55 p m	1196	S. Rizzlo	Nicholas Richardi

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
Market and Beaver sts	Supposed match on awning	50.00			
21 Brill st	Starting fire with kerosene	30.00	71.00	1200.00	500.00
91 State st	Leaky gas meter				
69 Halsey st	Careless use of matches				
157 Adams st	Defective chimney				
260 Broad st	Careless use of matches	375.00	250.00	3500.00	500.00
53 Oraton st	Bonfire				
66 Fairview ave	Careless use of candle	25.00	175.00	4000.00	900.00
269 Springfield ave	Careless use of matches				
300-310 Sixteenth ave	Lighted cigar or cigarette	5122.50	1524.00	25000.00	2500.00
299 Sixteenth ave	Lighted cigar or cigarette				
309 Sixteenth ave	Lighted cigar or cigarette				
	False alarm				
299 Bergen st	Careless use of matches	475.00	142.00	4500.00	1100.00
28 Avon pl	Gas leak and match				
112 Sixteenth ave	Soot in chimney				
192-196 Broad st	Unknown				
43 Blum st	Lighted cigar or cigarette	10.00			
886 Broad st	Bonfire in yard				
42 James st	Alcohol lamp	60.00	5.00	3500.00	1000.00
Rear Newark Baseball park	Careless use of matches				
	False alarm				
72-74 Vesey st	Explosion of oil	100.00	100.00		
203 Emmett st	Burning out of chimney				
112 Brill st	Struck by lightning			3000.00	
266 Springfield ave	Careless use of matches	10.00	46.66	10000.00	1100.00
Walnut and Van Buren sts.	Crossed circuit				
334-336 Ferry st	Back fire on motor				
17 Magazine st	Soot in chimney				
52 Lawrence st	Unknown	359.00	25.00	21500.00	
	False alarm				
64 South Twelfth st	Plumber's furnace	84.69	20.00	2500.00	1000.00
121 South st	Soot in chimney				
167 Grafton ave	Pan of fat on gas stove			5000.00	
	False alarm				
20 Camfield st	Unusual smoke				
245 West Kinney st	Curtain and gas stove		5.00	12000.00	500.00
18 Camfield st	Defective chimney				
Bowery st	Oil on engine				
Central ave. and 9th st	Leaky gasolene tank				
Springfield and 18th aves	Flash from motor box				
151 Spruce st	Careless use of matches	397.80	266.75	9200.00	1800.00
405 North Fifth st	Hot ashes on floor	15.00		8000.00	
106 Boyden st	Defective flue				
52 Hayes st	Lamp explosion				
26 Seventeenth ave	Mice and matches	180.00	425.00	3000.00	1100.00
87 Pennington st	Spark from dynamo		41.90		1000.00
485 Hunterdon st	Careless use of matches	40.00	100.00	9000.00	500.00
148 Market st	Burning out of stack				
161 Washington st	Partition near boiler	25.00			
254 Bruce st	Careless use of cigarette	30.00		3600.00	1000.00
62 William st	Defective chimney				
98½ Green st	Unusual smoke				
Fillmore st. & C.R.R.of N.J.	Boys and matches				
487 N.J.R.R. ave	Burning soot in stack	405.00	39.00	80000.00	79300.00
214 Charlton st	Candle and curtain				
15 Lock st	Careless use of matches				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Oct. 10	632	9.50 p m	9.56 p m	1197	Thomas Fitzpatrick	Julia Falk
11	58	3.00 a m	3.48 a m	1198	Mr. Boves	Mr. Boves
12	13	1.11 a m	1.22 a m	1199	Mr. McCarty	Mrs. Patterson
13	127	8.32 a m	8.52 a m	1200	Mary Richards	Phoebe Casdeig
13	629	4.14 p m	5.04 p m	1201	Jacob Combe	Jacob Combe
13	52	11.36 p m	11.45 p m	1202	Frank Pentozzi	Frank Pentozzi
13	665	6.10 p m	7.16 p m	1203	John V. Diefenthaler	William Fisher
13	Still	11.45 p m		1204	Samuel Davis	Automobile
14	39	11.26 a m	11.40 a m	1205	Mrs. Martha Williams	Mrs. Martha Williams
14	Still	11.45 a m		1206	Andrew Due	Mrs. A. Clausen
14	Still	2.10 p m		1207	John Moehring	Auto truck No. 44673
14	Still	2.27 p m		1208	Joseph Bien	Joseph Bien
14	Still	4.11 p m		1209	Mr. Ordway	Awnings on building
14	73	6.34 p m	6.48 p m	1210	Joshua Brierly	Joshua Brierly
14	428	9.35 p m	10.45 p m	1211	Cyrus Currier & Co.	Unoccupied
15	532	4.09 a m	5.36 a m	1212	P. Ballantine & Co.	P. Ballantine & Co.
15	445	5.02 p m	5.21 p m	1213	Mrs. G. Mennen	Mennen Chemical Co.
16	654	1.44 p m	1.47 p m	1214	False alarm	
16	259	2.50 p m	3.06 p m	1215	Anthony Gerber	William Sheldon
16	Still	7.15 p m		1216	George Underlippe	Jerome Connelly
16	21	9.18 p m	9.35 p m	1217	Whitty Estate	Canfield Pool Table Mfg. Co.
17	63	11.22 a m	11.31 a m	1218	M. Adler	M. Adler
17	Still	4.34 p m		1219		Vacant lot
18	121	9.10 p m	9.20 p m	1220	G. Roberts	G. Roberts
20	592	1.25 p m	1.47 p m	1221	R. Neumann Hardware Co.	R. Neumann Hardware Co.
20	Still	2.03 p m		1222	Jones Estate	Jones Estate
20	Still	6.02 p m		1223	Salvator Dauria	Joseph Sisto
20	Still	7.30 p m		1224	Estate Geo. Weidenmayer	Joseph Oelkekas
20	Still	7.45 p m		1225	Savera Rivello	Savera Rivello
21	134	11.53 a m	12.07 p m	1226	Ferry Hat Mfg. Co.	Ferry Hat Mfg. Co.
21	Still	12 noon		1227	Herman Schipper	Mary Hefferan
21	419	12.27 p m	12.34 p m	1228	F. H. Smith	John Demont
21	Still	6.00 p m		1229	John L. Pfeiffer	Patrick Wall
22	72	3.47 a m	4.04 a m	1230	John Pascono	Hugh Sears
22	156	9.09 a m	9.33 a m	1231	Catherine Burke	Stephen Derkofsky
22	Still	10.32 a m		1232		Meadows
22	128	12 noon	12.26 p m	1233	Mrs. G. J. Spatola	A. Esspesso
22	63	2.04 p m	2.17 p m	1234	Lewis Weitz	Lewis Weitz
22	615	7.55 p m	8.02 p m	1235	Xavier Wildrotter	James Fee
23	669	1.14 a m	1.48 a m	1236	William Hope	Moving picture theatre
23	Still	10.16 a m		1237	H. Bachman	H. Bachman & Co.
23	Still	12.05 p m		1238	A. M. Rosenberg	Automobile
23	Still	2.43 p m		1239	A. Abeles	John Schaffer
24	72	7.23 a m	7.51 a m	1240	Peter Hauck	George Marguylor
24	295	6.10 p m	6.49 p m	1241	Herman Rawitz	Samuel Sebert
24	241	9.46 p m	10.41 p m	1242	False alarm	
25	464	5.18 p m	5.29 p m	1243	Pennsylvania Railroad	Freight depot
25	124	7.04 p m	7.15 p m	1244	Frank Gerardo	Mr. Wallace
25	584	10.09 p m	11.34 p m	1245	Atha Tool Co.	Atha Tool Co.
26	269	12.27 a m	12.34 a m	1246	False alarm	
26	Still	9.41 a m		1247	Charles Bedell	George Boardman
26	271	10.35 a m	10.46 a m	1248	Carl Kaergel	Newark Scale Works
26	231	5.01 p m	5.18 p m	1249	Gash & Lefkowitz	Leo Goldman
26	551	7.11 p m	7.19 p m	1250	Julius Seitz	Mrs. W. Herdman
27	Still	8.30 a m		1251	Barbara Netting	E. Dremel
27	54	10.18 a m	10.31 a m	1252	Natteo Contarello	Concetta Bellino
27	551	6.19 p m	6.27 p m	1253	Martin Moekler	Oscar Godley

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
472 South Orange ave	Lamp exploded	4.00	11.75	3000.00	500.00
324 Passaic ave	Supposed incendiary				
72 Plane st	Curtain and gas jet				
140 Parker st	Defective flue			3000.00	
555 South Eleventh st	Drying clothes near stove	250.00	100.00	2500.00	500.00
53 Monroe st	Children and matches				
682-684 South Orange ave	Boxes near smoke pipe	20.00	50.00	18000.00	2000.00
Front of 33 Court st	Crossed wires on motor				
21 Pennington st	Child and matches	15.00	114.75	3000.00	2000.00
110 New York ave	Chimney fire				
Front of 146 Clinton pl	Sparks from pipe				
180 Sixteenth ave	Soot in chimney				
209 Market st	Lighted cigar or cigarette				
2 Clay st	Rags fell on stove				
451 Riverside ave	Bonfire	50.00			
Ferry and Freeman sts	Careless use of matches	350.00	250.00		
42-46 Orange st	Unknown				
	False alarm				
153 Ridgewood ave	Children playing with furnace	15.00		4500.00	
177 Delavan ave	Waste paper in yard				
199 Market st	Careless use of matches	3.75	27.00	20000.00	27000.00
192 West Kinney st	Blowout of electric fuse				
20th st. near 12th ave	Boys and bonfire				
584 Orange st	Unusual smoke				
9 St. Francis st	Gas leak and lighted match				
346 Belleville ave	Defective pipes				
70 Seventh ave	Soot in chimney				
86 Elm road	Defective flue				
142 Seventh ave	Soot in chimney				
329 North Fifth st	Friction in machinery				
13 Lillie st	Soot in chimney				
9 Wilburton pl	Unusual smoke				
391 Warren st	Soot in smoke pipe				
92 Sheffield st	Defective flue	47.00		3000.00	
72 Chambers st	Soot in chimney	25.00	25.00	1500.00	
Hamburg place	Sparks from locomotive				
137 Eighth ave	Defective flue	150.00	25.00		1000.00
194 Broome st	Sparks from chimney	15.00		2000.00	
270 Camden st	Careless use of matches		10.00		
990 South Orange ave	Overheated steam pipe	25.00		7000.00	
255 Market st	Defective chimney				
Avon and Chadwick aves	Back fire on motor				
97 Mercer st	Defective flue				
194 Orange st	Carelessness with matches	20.00	160.00	6500.00	1600.00
252 Prince st	Lighted candle and curtain	5.00	5.00	7000.00	
	False alarm				
70-82 River st	Explosion of fireworks		30.00		
29 Drift st	Matches and rags	3.00		1000.00	
Albert ave	Spark from electric motor	65.00	35.00		
	False alarm				
202 Parker st	Soot in chimney				
Rear 33 East Fairmount ave	Tar boiling over				
95 Monmouth st	Child and matches	95.00		22500.00	500.00
97 Tichenor st	Explosion of lamp	10.00	5.00	4000.00	
170 Belmont ave	Soot in chimney				
503 Market st	Cleaning bed with kerosene	17.00	10.00	4000.00	
116 Tichenor st	Explosion of lamp	25.00	15.00	1500.00	

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Oct. 29	643	6.06 a m	6.19 a m	1254	Joseph Kleinburg	Heyman Cooperman
29	619	7.48 a m	8.00 a m	1255	Antonio Cerrato	Camelo Scilla
29	271	9.17 a m	9.30 a m	1256	Mary Linnenkohl	May Forman
29	Still	11.01 a m		1257	Nathan Cohen	Wilfred Slocum
29	Still	11.20 a m		1258	Goldberg Brothers	Albert Lemmerman
29	Still	1.40 p m		1259	F. F. Proctor	Vacant lots
29	68	5.20 p m	6.36 p m	1260	Stanley Radomewicz	Charles Wilde
29	36	5.29 p m	6.55 p m	1261	Thomas Burns & Son	Thomas Burns & Son
29	29	8.41 p m	8.56 p m	1262	Morris Friedlander	Samuel Levy
30	Still	1.55 p m		1263	Celluloid Mfg. Co	Vacant lots
30	277	7.05 p m	7.15 p m	1264	A. H. Theufel	A. H. Theufel
31	721	4.14 a m	5.07 a m	1265	Mr. Morton	Davis Brothers
31	693	9.23 a m	9.30 a m	1266	True Friend B. & L. Assn	Sarah Ongue
31	Still	11.05 a m		1267	George Fischer	Charles Claire
31	321	11.41 a m	11.47 a m	1268	L. Meyer	Vacant
31	578	3.01 p m	3.24 p m	1269	Celluloid Mfg. Co	Celluloid Mfg. Co
31	Still	4.05 p m		1270	Ward-Gehin Co	J. V. Pryor
31	Still	8.13 p m		1271	Mrs. Sommerville	James McCullen
31	Still	8.55 p m		1272	Public Service Corporation	
31	73	11.48 p m	12.37 a m	1273	J. C. Mauro	Ida Nichols
Nov. 1	363	4.15 a m	5.52 a m	1274	L. Schlessinger, agent	A. S. Partlymas
1	295	12.06 p m	12.27 p m	1275	Bernard Tuxmann	Mrs. Goldberg
1	Still	12.53 p m		1276	Our Lady of Mt. Carmel Ch	Our Lady of Mt. Carmel Ch.
1	Still	5.35 p m		1277		Vacant lots
2	555	12.34 p m	12.41 p m	1278	Samuel Caruso	Samuel Caruso
2	232	2.30 p m	2.33 p m	1279	False alarm	
2	677	7.06 p m	7.18 p m	1280	Samuel Asher	Samuel Asher
2	663	8.02 p m	8.15 p m	1281	Gottfried Krueger	Dancing Pavilion
2	677	8.49 p m	8.51 p m	1282	False alarm	
2	693	10.25 p m	10.31 p m	1283	M. Walstein	Peter Pakrul
3	612	12.50 a m	1.06 a m	1284	Jacob Finkelstein	Alex. Shennesky
3	Still	10.26 a m		1285	Henry Wagner	Joseph George
3	56	11.14 a m	11.49 a m	1286	Angelo Garrone	Ludwig Gareon
3	735	12.19 p m	12.27 p m	1287	Mrs. Walsh	Unoccupied store
3	558	2.53 p m	3.25 p m	1288	Newark Rivet Works	Newark Rivet Works
3	72	5.30 p m	5.41 p m	1289	Mrs. Maccia	Miss Mary Porech
4	524	11.23 a m	11.52 a m	1290	Joseph Pagnotta	Joseph Drimalkas
4	672	5.18 p m	5.45 p m	1291		
4	Still	10.28 p m		1292		
5	Still	12.18 a m		1293	Charles Sparmer	Boylan Brothers
5	436	9.54 a m	10.14 a m	1294	Siegfried Cronheim	Mrs. William Taylor
5	519	2.09 p m	2.19 p m	1295	Alfonso Masucci	Frank Masucci
5	64	2.37 p m	2.48 p m	1296	Morris Berry	Joseph Wiskaski
5	Still	3.00 p m		1297		Vacant lots
5	236	5.28 p m	5.43 p m	1298	Charles Wolf	Schneer Brothers
5	128	8.56 p m	9.02 p m	1299	False alarm	
6	611	1.49 a m	2.14 a m	1300	Charles Davidson	Leonard Aftyka
6	729	11.03 a m	11.28 a m	1301	Salvator Cairo	Vincenzo Cairo
6	637	4.47 p m	4.56 p m	1302	False alarm	
6	Still	5.20 p m		1303	W. N. Wilkins	Automobile No. 15534 N. J.
6	Still	4.50 p m		1304	Mrs. J. Jones	Mrs. Ruff
7	23	6.40 a m	7.02 a m	1305	A. B. Meyer	Mrs. A. C. Laird
7	412	12.31 p m	12.50 p m	1306	E. G. Selby	Wm. J. Marshall
7	34	6.34 p m	6.42 p m	1307	Mr. Ostrage	Mrs. Howard
7	Still	9.10 p m		1308	A. Romano	A. Romano
7	4	9.12 p m	9.20 p m	1309	Mr. Priest	Unoccupied
8	61	7.34 p m	7.40 p m	1310	Charles Bang	Charles Bang

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
173 Prince st	Unknown				
60 Prospect pl	Careless use of matches		5.00	8000.00	
51 Lewis st	Unusual smoke				
146 Watson ave	Sparks from range				
51 Richard st	Soot in chimney				
193-197 Halsey st	Bonfire				
158 Belmont ave	Boy and lamp	20.00	35.00	6400.00	
197-199 South Canal st	From smoking	2550.00		11150.00	850.00
109 Pennsylvania ave	Soot in chimney		15.00		1200.00
51-57 Westcott st	Boys and bonfire				
77 Nairn pl	Escaping steam				
22 Clifton ave	Unknown	500.00	1492.29	500.00	1800.00
178 West Kinney st	Unknown			3000.00	
149 North Ninth st	Waste paper behind range				
Rear 355-357 Market st	Pot of tar and matches	30.00		7500.00	
George & St. Charles sts	Sparks from adjoining cupola				
152 Central ave	Unusual smoke				
49 James st	Curtain caught fire				
Third ave and Oriental st	Broken lamp post				
Rear 29 Seventh ave	Overheated stove	230.00	20.00	2000.00	
316 Plane st	Hot coal from stove	2285.00	2095.00	27000.00	10500.00
266 Prince st	Child and matches				
Ferry and McWhorter sts	Smoky furnace				
39 Hamilton st	Bonfire				
138 Jackson st	Pot of tar boiled over				
	False alarm				
72 Sixteenth ave	Leaky gas and candle		26.00	12000.00	500.00
680 South Orange ave	Sparks from chimney				
	False alarm				
126 West st	Unknown	12.50	2.00	1000.00	
58 Morton st	Unknown	175.00		7000.00	
291 Bergen st	Soot in chimney				
18 Van Buren st	Overheated stove	125.00	137.50	2000.00	500.00
123 Morris ave	Careless use of matches	25.00		4000.00	
262 Lafayette st	Gasolene ignited				
107 Boyden st	Careless use of matches	25.00	5.00	6000.00	500.00
90 Nichols st	Careless use of matches	100.00		2500.00	
Out of city	Out of city				
Plane and William sts	Bonfire				
Bank and Norfolk sts	Unusual smoke				
27 Grafton ave	Soot in chimney				
30 Wall st	Defective flue	40.00		1000.00	
299 Norfolk st	Sparks from stove	30.00	5.00	4000.00	700.00
Herbert place	Rubbish fire				
179 Peshine ave	Rubbish in cellar				
	False alarm				
37 Rankin st	Overheated stove	200.00	115.00	4500.00	500.00
228 North First st	Fat boiled over on stove	39.15	100.00	1500.00	500.00
	False alarm				
Halsey and Bank sts	Gas tank on auto				
9 Oxford st	Soot in chimney				
17 Hill st	Careless use of matches	74.34	21.75	5000.00	2000.00
256 Belleville ave	Chimney fire	36.00		1700.00	
50 Walnut st	Unusual smoke				
63 High st	Unusual smoke				
160 Orange st	Unusual smoke				
118-120 Howard st	Boys and matches				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Nov. 8	Still	8.21 p m		1311	E. D. Birkholz	Mrs. Jennie Regan
8	Still	11.25 p m		1312	J. L. Feiblemann & Co.	Jacob Fox
9	312	1.25 a m	2.05 a m	1313	G. A. Mausert	Hotel Broad
9	144	2.44 a m	3.34 a m	1314	D. Friedman	A. & P. Tea Co
9	695	5.20 a m	5.28 a m	1315	False alarm	
9	78	8.34 a m	8.46 a m	1316	Christian Feigenspan	Gatio & Santoro
9	139	6.05 p m	6.19 p m	1317	False alarm	
9	241	10.12 p m	10.16 p m	1318	False alarm	
10	74	12.01 p m	12.11 p m	1319	Salvatore Gervasio	Salvator Gervasio
10	295	12.52 p m	1.23 p m	1320	Joseph Jaeger	Meyer Laub
10	146	1.21 p m	1.32 p m	1321	Frank Casale	Nicholas Del Guercio
10	626	4.28 p m	4.40 p m	1322	Abraham Nisenson	Benjamin Fox
10	15	9.09 p m	9.21 p m	1323	J. H. Grant & Co.	J. H. Grant & Co.
10	266	11.21 p m	11.39 p m	1324	Park Front Realty Co.	Park Front Realty Co.
11	Still	12.05 p m		1325		
11	642	9.59 p m	10.07 p m	1326	False alarm	
11	463	11.28 p m	12.03 a m	1327	Edward E. Rhodes	Edward E. Rhodes
12	241	12.50 a m	12.55 a m	1328	False alarm	
12	717	12.05 p m	12.28 p m	1329	Joseph De Copua	Joseph De Copua
12	Still	1.20 p m		1330	Henry Horns	Henry Horns
12	73	1.34 p m	1.52 p m	1331	Ricollo Tallamino	Ricollo Tallamino
12	426	8.44 p m	9.00 p m	1332	C. Breithut	H. Baeke
12	322	8.55 p m	9.08 p m	1333	Mr. McKeon	Packard Auto Co
13	295	1.14 a m	1.23 a m	1334	Mrs. Lieb	Mrs. Polehsusk
13	Still	10.54 a m		1335	A. Radell	Andrew Rappenstein
13	437	4.56 p m	5.12 p m	1336	M. Greenberg	F. Savoy
13	Still	8.40 p m		1337		Vacant lot
14	677	5.03 a m	5.31 a m	1338	Progressive Investment Co.	Vacant building
14	Still	9.10 a m		1339	Progressive Investment Co.	Vacant building
14	56	10.39 a m	11.01 a m	1340	Colomba Derosa	Kate Zink
14	457	4.25 p m	4.35 p m	1341	F. W. Stiles	F. W. Stiles
14	737	6.04 p m	6.13 p m	1342	False alarm	
14	72	6.19 p m	6.33 p m	1343	Mr. Angelo	Frank Steffanelli
14	715	6.51 p m	7.11 p m	1344	Antonio Musa	Antonio Musa
14	526	6.58 p m	7.27 p m	1345	Lewis Brothers	Lewis Brothers
14	269	9.53 p m	10.03 p m	1346	Broad Realty Company	Valentine Rab
14	295	10.19 p m	11.07 p m	1347	Herman Katz	Herman Katz
15	693	6.01 a m	6.08 a m	1348	N. Zemmel	Automobile
15	251	8.20 a m	8.39 a m	1349	Rev. F. C. O'Neill	Rev. F. C. O'Neill
15	Still	12.05 p m		1350	P. Werner	Mrs. E. L. Dodd
15	253	12.20 p m	12.25 p m	1351	Oscar E. Day	Oscar E. Day
15	684	12.35 p m	12.56 p m	1352	A. Washnitzer	Philip Zeid
15	13	1.03 p m	1.28 p m	1353	Swift & Co.	Van Wagenen & Schickhaus
15	246	2.50 p m	3.01 p m	1354	Estate Philip N. Jackson	John Hennesy
15	679	4.20 p m	4.29 p m	1355	Donato Giacomo	James Farato
15	Still	5.00 p m		1356	W. K. Freeland	W. K. Freeland
15	612	7.02 p m	7.09 p m	1357	Mrs. Rebecca Knoller	Mrs. Rebecca Knoller
15	51	7.44 p m	7.50 p m	1358	Louis Placitella	Paul Deitrich
16	629	2.30 a m	2.36 a m	1359	False alarm	
16	Still	10.05 a m		1360	Lehigh & Wilkesbarre Coal Co.	Lehigh & Wilkesb're Coal Co.
16	125	3.33 p m	3.39 p m	1361	False alarm	
16	442	4.29 p m	4.34 p m	1362	E. J. Wright	E. J. Wright
16	421	6.12 p m	6.32 p m	1363	Dr. Weston	Mrs. Rice
17	232	12.12 a m	12.38 a m	1364	West Side Realty Co.	Max Botnick
17	28	10.28 a m	10.37 a m	1365	Vanderveer & Brooks Co.	In course of construction
18	714	11.13 a m	11.21 a m	1366	Samuel Weintraub	Michael Rossi
18	554	12.23 p m	12.34 p m	1367	J. Lentz Estate	Charles Kronce

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
3 Orleans st	Defective flue				
321 Springfield ave	Careless use of matches	33.00	50.00	10000.00	1500.00
854 Broad st	Careless use of cigarette	75.00	41.00	15000.00	7000.00
Mt. Prospect & Bl'mfield avs.	Careless use of matches	95.00		8000.00	
	False alarm				
177 Bleecker st	Lighted cigar butt	17.50		3000.00	
	False alarm				
	False alarm				
1 Nesbitt st	Child and matches	9.00		2400.00	
142-144 Somerset st	Defective flue	45.00	25.00	18000.00	500.00
140 Seventh ave	Careless use of matches	20.00	10.00	12000.00	
186 Spruce st	Children and matches		47.50		400.00
540 Broad st	Cigarette butt	170.00	135.00	82000.00	500.00
Elizabeth & Chancellor aves.	From smoking	10.00			
Mt. Prospt. & Montcl'r avs.	Brush fire				
	False alarm				
233 Elwood ave	Defective electric wire	220.00	166.20	18500.00	2000.00
	False alarm				
249 Eighth ave	Defective flue	95.00	30.00	3000.00	800.00
189 Belmont ave	Painter's gasoline torch				
156 High st	Rubbish in cellar				
61 Belleville ave	Back draught in chimney				
24 Branford pl	Unusual smoke				
29 Avon pl	Boy and matches	5.00	35.00	5000.00	600.00
Rear 68 Elm st	Grass fire				
45 Congress st	Soot in chimney				
67 Winthrop st	Boys and matches				
379-381 Springfield ave	Lighted cigarette butt				
379-381 Springfield ave	Previous fire rekindled				
Rear 18 Van Buren st	Defective chimney				
519 Mt. Prospect ave	Unusual smoke				
	False alarm				
184 Orange st	Careless use of matches	186.66	45.00	2400.00	500.00
89 Colden st	Soot in chimney	40.00		2000.00	
133-139 Monroe st	Filling gasolene tank on auto		1252.89		50000.00
77½ Peshine ave	From smoking	15.00		2500.00	
20 Avon pl	Unknown	363.00	557.00	4000.00	1000.00
West and Kinney sts	Back fire	125.59		1600.00	
15 Van Ness pl	Overheated steam pipe	60.00		8000.00	
203 Thirteenth ave	Soot in chimney				
1 Clinton pl	Can of tar boiled over	54.00	16.30	8000.00	1000.00
91 Prince st	Careless use of matches	210.00	216.00	8000.00	1650.00
30-32 Plane st	Overheated flue				
5 Meeker ave	Careless use of matches		50.00		1000.00
72 Prospect pl	Careless use of matches				
96 Orange st	Leaky gasolene pipe				
169 Howard st	Careless use of matches				
48½ Union st	Explosion of oil lamp				
	False alarm				
666 Market st	Unknown				
	False alarm				
24 Park pl	Smoky oil stove				
17 Grant st	Boy and matches	34.50	10.00	5000.00	
260 Belmont ave	Careless use of matches		179.79		1450.00
201 Barclay st	Careless use of matches				
217 New st	Curtain against flame		5.00		
30 Barbara st	Soot in chimney				

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Nov. 18	712	3.15 p m	3.21 p m	1368	False alarm	
18	132	3.59 p m	4.12 p m	1369	Edward S. Shauger	E. S. Shauger
18	342	8.05 p m	9.12 p m	1370	Wharton Estate	Mercy Hat Mfg. Co.
18	241	8.40 p m	8.45 p m	1371	False alarm	
19	24	12.14 p m	12.22 p m	1372	Warranty Realty Co.	Automobile
19	21	2.53 p m	2.57 p m	1373	False alarm	
19	Still	3.15 p m		1374	Lawyers Building Co.	Proctor's Theatre
19	Still	6.10 p m		1375	J. E. Crosby	Vacant building
19	241	9.30 p m	9.39 p m	1376	Kunigunida Stawski	Kunigunida Stawski
20	241	11.45 a m	12.01 p m	1377	Abraham Lipstein	Morris Stratman
20	Still	8.40 p m		1378	Samuel Meyer	Mrs. Mary Downing
20	325	9.39 p m	10.28 p m	1379	The Robinson Company	The Robinson Company
21	121	5.02 a m	5.35 a m	1380	Ward Estate	Joseph Bedell
21	Still	6.31 a m		1381	Public Service Railway Co.	Trolley Car No. 2246
21	7	12.34 p m	12.43 p m	1382	F. B. McDonald	P. McNamara
21	16	11.35 p m	11.40 p m	1383	False alarm	
22	369	7.49 a m	8.00 a m	1384	A. Amarco	A. Amarco
22	611	9.52 a m	10.13 a m	1385	Mendel Simon	Isidore Belsky
22	516	10.35 a m	10.56 a m	1386	Wiener-Barnet Co.	Wiener-Barnet Co.
22	Still	3.20 p m		1387	Estate of Catherine Motz	Felix March
22	631	5.54 p m	6.04 p m	1388	Samuel Waldron	Samuel Waldron
23	587	12.25 a m	12.28 a m	1389	False alarm	
23	241	2.40 a m	3.25 a m	1390	Morris Kingman	Unoccupied
23	735	11.54 a m	12.06 p m	1391	Frank A. Schaefer	Frank A. Schaefer
23	616	6.08 p m	6.15 p m	1392	George Schmidt	George Schmidt
23	Still	6.55 p m		1393	Mrs. Fairfax	Mrs. Vanderlon
23	Still	9.02 p m		1394	Louis Lippman	Mrs. Mary Dagna
23	234	10.13 p m	10.48 p m	1395	Haussling & Baader	Mrs. Johnson
24	554	1.11 a m	1.20 a m	1396	False alarm	
24	14	8.00 a m	8.08 a m	1397	False alarm	
24	Still	8.01 a m		1398	Louis Schlesinger	A. Tutwiler
24	Still	9.25 a m		1399		
24	35	5.46 p m	5.56 p m	1400	False alarm	
24	293	9.30 p m	9.40 p m	1401	Mrs. Martha Williams	Mrs. Martha Williams
25	Still	6.56 p m		1402	Adam Sauer Estate	Mrs. A. Sauer
25	35	7.21 p m	10.13 p m	1403	Chris. Fleissner	Newark Embossing Co.
25	35	2d alarm		1403	Chris. Fleissner	Newark Embossing Co.
25	32	9.34 p m	9.52 p m	1404	Mrs. Macknet	Mrs. T. Mead
26	Still	3.12 a m		1405	Robert E. Logue	Harry Sternberger
26	134	3.57 p m	4.08 p m	1406	Ferry & Webber	Ferry & Webber
27	715	8.42 a m	8.52 a m	1407	Paul A. Queen	Mrs. Carolina Seno
27	295	8.47 a m	9.11 a m	1408	Sam'l Weinberg & Isidor Frank	John Quinto
27	675	9.41 a m	9.57 a m	1409	A. Kramarich	
27	Still	10.51 a m		1410	Mrs. L. Gaery	John Quinn
27	28	12 noon	12.05 p m	1411	William Zigengas	Auto No. 24905 N. J.
27	476	3.34 p m	4.00 p m	1412	Striebey & Foote Co.	Striebey & Foote Co.
27	Still	5.16 p m		1413	Mrs. Price	Mrs. Brogan
28	737	8.48 p m	9.02 p m	1414	False alarm	
28	655	9.20 p m	9.27 p m	1415	False alarm	
29	Still	2.25 a m		1416	Essex County Brewing Co.	Essex County Brewing Co.
29	Still	8.47 a m		1417	Reliance Investment Co.	Mr. Hillery
29	655	2.51 p m	2.55 p m	1418	False alarm	
29	Still	3.52 p m		1419	George Hoch	Fred. Rea
29	269	8.36 p m	9.05 p m	1420	David Cook	Max Lichtiger
29	Still	9.30 p m		1421	Estate of E. Maybaum	Max Lower
29	5	9.42 p m	9.52 p m	1422	Charles Brown	Mrs. Van Buren
Dec. 1	Still	9.50 a m		1423	United Cigar Stores Co.	United Cigar Stores Co.

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
.....	False alarm.....	.....	.....	.....	.....
330 Sixth ave.....	Careless use of gasolene.....	20.00	12.00	4500.00	1000.00
142 Commerce st.....	Spontaneous combustion.....	.....	.....	.....	.....
.....	False alarm.....	.....	.....	.....	.....
235 Halsey st.....	Back fire on motor.....	.....	.....	.....	.....
.....	False alarm.....	.....	.....	.....	.....
Park Place.....	From sparkler.....	.....	.....	.....	.....
204-210 Academy st.....	Rubbish in yard.....	.....	.....	.....	.....
169 Jelliff ave.....	Gas jet and curtain.....	.....	.....	.....	.....
5 Hillside ave.....	Children and matches.....	35.00	200.00	5000.00	1000.00
194 Norfolk st.....	Soot in chimney.....	.....	.....	.....	.....
10-12 Beaver st.....	From smoking.....	438.00	1200.00	10000.00	26500.00
9 South Fourteenth st.....	Careless use of matches.....	25.00	20.00	3500.00	.....
Front of 5 Washington ave.....	Unknown	.....	.....	.....	.....
368 New st.....	Clothing near range.....	.....	5.00	3000.00	500.00
.....	False alarm.....	.....	.....	.....	.....
121 South Canal st.....	Children and matches.....	.....	.....	7000.00	1300.00
214 Court st.....	Flame from gas stove.....	.....	.....	.....	.....
Rear 314 Adams st.....	Sparks from stack.....	.....	.....	.....	.....
178½ Belmont ave.....	Defective flue.....	.....	.....	.....	.....
165 Littleton ave.....	Smoke from varnished pipes.....	.....	.....	.....	.....
.....	False alarm.....	.....	.....	.....	.....
165 Jelliff ave.....	Mice and matches.....	204.90	.....	4300.00	.....
28 Bruce st.....	Back fire on auto.....	.....	.....	.....	.....
430 Springfield ave.....	Incendiary	25.00	23.54	7500.00	750.00
13 Hamilton st.....	Defective chimney.....	.....	.....	.....	.....
29 Hartford st.....	Soot in chimney.....	.....	.....	.....	.....
58 Arlington st.....	Lamp upset.....	70.00	35.00	1000.00	.....
.....	False alarm.....	.....	.....	.....	.....
.....	False alarm.....	.....	.....	.....	.....
60 Bank st.....	Unusual smoke.....	.....	.....	.....	.....
Rear 112 Hunterdon st.....	Boys and bonfire.....	.....	.....	.....	.....
.....	False alarm.....	.....	.....	.....	.....
178 Johnson ave.....	Lamp explosion.....	.....	15.00	.....	1000.00
134 Walnut st.....	Soot in chimney.....	.....	.....	.....	.....
121-123 N.J.R.R. ave.....	From smoking.....	3948.24	8423.96	15000.00	20000.00
121-123 N.J.R.R. ave.....	From smoking.....	.....	.....	.....	.....
259 N.J.R.R. ave.....	Oil stove exploded.....	15.00	7.00	2000.00	.....
307 Central ave.....	Escaping steam.....	.....	.....	.....	.....
329 North Fifth st.....	False alarm, A.D.T.....	.....	.....	.....	.....
73 Colden st.....	Overheated stove.....	35.00	10.00	2500.00	.....
91 Waverly ave.....	Careless use of matches.....	30.00	.....	8000.00	.....
342 Sanford ave.....	Boiling tar.....	.....	.....	.....	.....
99 Bowery st.....	Soot in chimney.....	.....	.....	.....	.....
271 Clinton ave.....	Gasolene leak.....	.....	.....	.....	.....
301 Ogden st.....	Hot ashes.....	5.00	10.00	.....	.....
27 Franklin st.....	Dirty chimney.....	.....	.....	.....	.....
.....	False alarm.....	.....	.....	.....	.....
.....	False alarm.....	.....	.....	.....	.....
441 Broad st.....	Unknown	.....	.....	.....	.....
2 Rowans court.....	Soot in chimney.....	.....	.....	.....	.....
.....	False alarm.....	.....	.....	.....	.....
13 Washington ave.....	Soot in chimney.....	.....	.....	.....	.....
524 Hunterdon st.....	Careless use of matches.....	250.00	250.00	7400.00	800.00
123 Waverly ave.....	Defective flue.....	42.00	25.00	14500.00	500.00
22 Union st.....	Careless use of matches.....	25.00	250.00	500.00	.....
Broad and Market sts.....	Rubbish in cellar.....	.....	.....	.....	.....

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Dec. 1	624	12.29 p m		1424	Joseph Cooperman	L. Mesner
1	526	7.47 p m	8.05 p m	1425	Joseph Callitto	Joseph Callitto
1	Still	8.38 p m		1426	W. H. Fiedler, agent	Mr. Domich
2	635	5.01 a m	5.06 a m	1427	False alarm	
2	12	5.25 a m	5.30 a m	1428	False alarm	
2	562	2.10 p m	2.18 p m	1429	False alarm	
2	32	2.14 p m	2.33 p m	1430	Margaret Stanley	C. Canfield
2	215	4.11 p m	4.26 p m	1431	William Bowden	David G. Keisler
2	Still	11.00 p m		1432	Ludwig Quesbarth	Andrew MacNichols
3	124	12.51 p m	1.21 p m	1433	A. Gonnelli	A. Gonnelli
3	68	1.55 p m	2.06 p m	1434	Morris Hausman	Morris Ram
3	674	2.33 p m	3.01 p m	1435		Vacant lots
3	121	2.58 p m	3.05 p m	1436	False alarm	
3	643	5.23 p m	7.41 p m	1437	Ernestine Lehrhoff	Bender & Lehrhoff
4	295	8.54 a m	10.15 a m	1438	Abraham Feinberg	Leon Greenberg
4	63	4.32 p m	4.55 p m	1439	Cong. Ansher Spard Limas	Solomon Finkelstein
4	139	5.10 p m	5.16 p m	1440	False alarm	
5	Still	2.25 a m		1441	Thomas A. Murphy	Fred. Pullan
5	64	8.05 a m	8.22 a m	1442	Samuel Meyer	Jacob Schenkel
5	671	12.39 p m	12.52 p m	1443	False alarm	
5	Still	1.40 p m		1444		
5	14	7.57 p m	8.04 p m	1445	Paul H. Jahnig	Automobile No. 13752 N. J.
5	712	8.37 p m	8.44 p m	1446	False alarm	
5	5	9.10 p m	9.16 p m	1447	Toney Vernier	Toney Varnier
6	722	3.28 a m	3.58 a m	1448	Knickerbocker Biscuit Co	Knickerbocker Biscuit Co.
6	626	9.25 a m	9.39 a m	1449	Victor Klein	Steve Butterkist
6	Still	10.38 a m		1450	Morris & Louis Botnick	David Reiner
6	735	12.34 p m	12.40 p m	1451	Mrs. Walsh	Unoccupied
6	133	3.30 p m	3.41 p m	1452	Goerke Company	Whiting Motor Co.
6	Still	5.51 p m		1453	Harry Coleman	J. Horewitz
7	72	12.42 a m	1.30 a m	1454	Broad & Market B. & L. Assn.	E. L. Casperson
7	Still	1.50 p m		1455		
7	Still	6.06 p m		1456	Hans Frier	Alberico Moirabella
8	Still	10.40 a m		1457	Mrs. M. Keelard	Mrs. Mary Griffen
8	57	3.05 p m	3.23 p m	1458	James Burns	Stanislaw Ludlock
8	128	5.31 p m	5.47 p m	1459	S. D. Auria	M. Lowery
8	615	5.59 p m	6.19 p m	1460	Louis Oltolino	Joseph Ferra
8	614	8.51 p m	9.02 p m	1461	Philip Gruber	Philip Gruber
9	554	12.01 a m	12.09 a m	1462	False alarm	
9	21	3.15 a m	3.21 a m	1463	A. L. & A. M. Peer	R. Walsh & Co.
9	629	8.02 a m	8.15 a m	1464	Progressive Investment Co	Sam Blum
9	Still	11.53 a m		1465	James Bradshaw	Mr. Hawthorne
9	54	12.53 p m	1.02 p m	1466	Hensler Realty Co	
9	Still	2.56 p m		1467	Mrs. Gibbs	Vacant lots
9	Still	7.43 p m		1468	George Zimmerman	George Zimmerman
10	35	12.58 a m	2.11 a m	1469	John C. Kohant	John C. Kohant
10	135	7.12 a m	9.16 a m	1470	D., L. & W. Railroad	L. Pierson
10	Still	8.37 a m		1471	Charles F. Kraemer	Charles Jaeger
10	678	4.38 p m	4.47 p m	1472	Mrs. J. Hart	Acme Garage
11	726	9.08 a m	9.20 a m	1473	J. Wiss & Sons	J. Wiss & Sons
11	226	11.41 a m	12.01 p m	1474	John T. Riely	John T. Riely
11	64	1.13 p m	1.26 p m	1475	Isaac Schwarz	Sarto Lowero
11	682	3.23 p m	3.34 p m	1476	Matthias Hiltgen	Matthias Hiltgen
11	65	5.36 p m	5.48 p m	1477	Fred. Baczynski	Fred. Baczynski
11	128	11.26 p m	11.57 p m	1478	Peter Roffolo	Paul Teuber
12	Still	12.45 a m		1479	Edward J. Hahn	Mrs. John Reilly
12	256	10.52 a m	11.13 a m	1480	John Goren	Jacob Decker

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
97 Camden st	Rags in closet				
315-317 Walnut st	Careless use of matches	53.55	150.00	15000.00	800.00
366 Washington st	Careless use of matches				
	False alarm				
	False alarm				
	False alarm				
16 Johnson st	Careless use of cigarette	35.00		1200.00	
55 Emmett st	Spark from furnace	55.00	35.75	2250.00	1000.00
203 Peshine ave	Spark from match	5.00	158.60	5000.00	1000.00
74½ Cutler st	Supposed careless use of matches	150.00	250.00	5000.00	1500.00
141 Boyd st	Unknown	13.95	45.00	5000.00	500.00
Ivy st	Brush fire				
	False alarm				
192-196 Prince st	Defective bake oven	445.00	318.10	2600.00	1200.00
263 Broome st	Careless use of candle	5.00		11500.00	
157 Prince st	From smoking	20.00	100.00	3500.00	500.00
	False alarm				
169 Ogden st	Curtain and candle				
90 South Orange ave	Careless use of matches	125.00	125.00	8000.00	2500.00
	False alarm				
Rear of Geneva st	Boys set fire to brush				
109 Bank st	Filling gasolene tank		10.00		
	False alarm				
97 Prospect st	Lard took fire				
98 New st	From smoking	101.25	600.00	3000.00	1000.00
130 Barclay st	Unusual smoke				
272 Belmont ave	Defective flue	50.00		9500.00	
123 Morris ave	Children and matches	25.00		4000.00	
486 Central ave	Short circuit on auto		175.00		2000.00
467 Broad st	Unusual smoke		5.00		3500.00
186 Orange st	Careless use of matches	20.00	502.73	1000.00	2500.00
3 South Orange ave	Chimney fire				
88 Mt. Prospect ave	Soot in chimney				
43 Mt. Prospect ave	Overheated oven				
23 Freeman st	Children and matches	63.00	22.80	2500.00	300.00
149 Eighth ave	Children and matches		15.00		
261 Bergen st	Children and matches	67.00	50.00	8000.00	
674 South Twelfth st	Rubbish in cellar		10.00		500.00
	False alarm				
157 Market st	Escaping steam				
179 Sixteenth ave	Gas stove	10.00	8.25	7500.00	500.00
49 Columbia ave	Soot in chimney				
531 Market st	Oil lamp in cellar				
Herbert place	Bonfire				
66 South Orange ave	Unusual smoke				
117 Green st	Electric wires	550.00	1130.00	12000.00	7000.00
174 First st	Sparks from locomotive	1422.00	800.00	4000.00	1500.00
167 Avon ave	Defective chimney				
293 South Orange ave	Unusual smoke				
31 Littleton ave	From furnace				
142 Elizabeth ave	Careless use of matches	75.00	251.50	6000.00	2000.00
67 Rutgers st	Children and matches	10.00	5.00	4000.00	
77 Nineteenth ave	From smoker's pipe	20.00		10000.00	
70 Lillie st	Soot in chimney				
68 State st	Overheated stove	105.00	217.00	3600.00	400.00
193 Warren st	Defective flue	45.00		4000.00	
321 Clinton pl	Thawing water pipes	25.00		3000.00	

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Dec. 12	64	4.52 p m	5.13 p m	1481	Nathan Weinberg	Nathan Weinberg
12	619	5.28 p m	6.07 p m	1482	Antonio Blasi	Giovanni Celentano
12	439	5.52 p m	6.01 p m	1483	False alarm	
13	52	10.09 a m	10.22 a m	1484	L. Kohn	F. Torsillo
13	213	10.19 a m	10.54 a m	485	Rose C. Boyd	Madge Wilson
13	Still	10.57 a m		1486	Farmer Estate	D. Scott
13	Still	9.15 p m		1487	Charles J. Titsworth	Samuel Mankowitz
14	615	9.11 a m	9.20 a m	1488	Thomas Buerk	P. B. Patten
14	513	7.58 p m	8.33 p m	1489	Boot & Flinn	Storage sheds
14	58	8.00 p m	8.20 p m	1490	False alarm	
14	686	11.28 p m	12.37 a m	1491	Metropolitan Realty Co	Frank Roehrich
15	129	6.27 a m	6.51 a m	1492	Oresto C. Gonnelli	Frank Di Sarino
15	Still	11.20 a m		1493	Bertha Campfield	Julius Sickinger
15	Still	11.30 a m		1494	H. Islander	Mrs. Holmes
16	Still	8.01 a m		1495	Mrs. Ida J. Day	John K. Pierson
16	Still	9.35 a m		1496	Leon F. Blanchard	Richard F. Cornell
16	234	5.07 p m	5.18 p m	1497	Krueger Brewing Co	Mrs. Lackay
16	681	5.46 p m	5.53 p m	1498	Homeopathic Hospital	Homeopathic Hospital
17	241	12.53 a m	2.02 a m	1499	Peter Caille	Cut Leather Company
18	121	4.27 a m	4.53 a m	1500	Raymond Meyer	George Bryant
18	213	11.42 a m	11.54 a m	1501	Harry Lowy	Solomon Farb
18	128	1.39 p m	2.26 p m	1502	Mrs. G. Fiorio	Vacant store
18	626	4.16 p m	4.26 p m	1503	Samuel Gilzen	Benjamin Scotch
18	63	5.47 p m	6.05 p m	1504	Isaac Gadkowski	Noah Smith
18	Still	6.30 p m		1505	Goerke Company	H. W. Lyttle
19	76	2.15 a m	2.40 a m	1506	American Button Works	American Button Works
19	Still	1.24 p m		1507		Vacant lot
19	24	4.35 p m	4.49 p m	1508	Mrs. Kirchner	Salvation Army
19	32	6.11 p m	6.19 p m	1509	Peter Hauck Brewing Co	Frank Schreiber
19	Still	8.15 p m		1510	Public Service Railway Co	Trolley car No. 2243
20	626	11.50 a m	11.57 a m	1511	Charles Bierman	Unoccupied
20	Still	3.07 p m		1512	Estate of Catherine Motz	Felix Zmars
20	231	11.21 p m	1.17 a m	1513	Louis Krueger	Unoccupied
22	526	6.26 a m	6.59 a m	1514	Mrs. Emma Bushauer	Gerandola & Alfano
22	129	12.28 p m	12.48 p m	1515	Alfonso Del Gurcio	Mike Serroto
23	626	8.29 a m	8.42 a m	1516	Nathaniel Elin	Emil Leventhal
23	638	4.15 p m	4.43 p m	1517	Samuel Schechner	Tony Dino
23	Still	6.16 p m		1518	Jacob Franklin	Unoccupied
23	326	9.02 p m	9.21 p m	1519	False alarm	
23	434	11.42 p m	12.02 a m	1520	Peabody Estate	Edgar C. McCall
24	Still	11.30 a m		1521	P. Ennis	P. Leblein
24	Still	8.40 p m		1522	Bakus Gavalas	Presto Lunch Co
25	146	3.11 a m	3.20 a m	1523	False alarm	
25	37	6.19 a m	6.26 a m	1524	Franz Realty Co	Unoccupied
25	57	9.19 a m	9.29 a m	1525	Thomas J. Smith	John Spect
25	543	12.34 p m	1.04 p m	1526	L. Guidera	J. Zwingel
25	672	12.41 p m	1.10 p m	1527	J. P. Tompson	J. P. Tompson
25	269	3.02 p m	3.11 p m	1528	David Broder	Anna Habig
25	219	3.53 p m	3.59 p m	1529	Adolph Fisch	Dr. L. A. Lancit
25	637	5.24 p m	5.38 p m	1530	E. L. Minier	F. Countryman
25	24	10.14 p m	10.27 p m	1531	Mr. Axt	Heck & Weiseman
26	526	8.21 a m	8.43 a m	1532	J. Conradi	J. Bouvier
26	Still	10.55 a m		1533	Spencer & Kellogg	Auto truck No. 5232 N. Y.
26	52	3.13 p m	3.21 p m	1534	Fred W. Zipf	Carmella Carbato
26	737	4.29 p m	4.45 p m	1535	Guiseppe Cella	Guiseppe Cella
26	654	5.19 p m	5.29 p m	1536	Harris Silberstein	Harris Silberstein
26	363	8.35 p m	8.48 p m	1537	D. Lazzali Estate	Louis Maloni

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
105 South Orange ave	Window decorations ignited	101.00	161.00	15000.00	6500.00
44 Fourteenth ave	Overheated stove pipe	175.00	30.00	1200.00	
	False alarm				
65-67 Madison st	Children and matches		25.00		
113 Academy st	Child and matches	102.00	20.00	500.00	
24 Division pl	Soot in fireplace				
73 Thirteenth ave	Gas leak				
244 Bergen st	Careless use of matches	30.00	5.00	8000.00	300.00
Hamburg pl and Napoleon st	Careless use of matches	50.00	150.00		
	False alarm				
403-405 Fairmount ave	Careless use of cigarette	771.00	125.00	3000.00	1500.00
78 Cutler st	Careless use of matches	150.00	110.00	11000.00	600.00
120 Sherman ave	Defective flue	5.00		1500.00	
23 Rutger st	Rubbish in closet	5.00		2000.00	
60 Wright st	Soot in chimney				
17 White terrace	Escaping steam				
117 William st	Child and matches	5.00	10.00	5000.00	400.00
133 Littleton ave	Ignition of ether		50.00		
277-279 Livingston st	Spontaneous combustion	700.00	11750.00	2800.00	14511.16
44 South Fifteenth st	Overheated stove pipe				
216 Washington st	Oil stove exploded		40.00		1000.00
139 Eighth ave	Overheated oven	487.50	50.00	10700.00	
68 Barclay st	Children and matches	10.00	80.00	4200.00	300.00
153 Broome st	Defective flue				
558 Central ave	Grease on gas oven				
70 Morris ave	Spontaneous combustion	70.00		25000.00	
Sheerer ave. & Osborne ter	Brush fire				
307 Plane st	Unusual smoke				
360 Mulberry st	Cleaning with gasolene		17.40		
Front of 5 Washington ave	Unknown				
148 Spruce st	Unusual smoke				
178½ Belmont ave	Defective flue				
136 Clinton ave	Careless use of matches	514.50		10000.00	
262 Elm st	Careless use of matches	250.00	175.00		250.00
30 Cutler st	Hot ashes in box	50.00		7500.00	
156 Spruce st	Spark from match		170.00		500.00
42 Rutgers st	Careless use of matches	40.00	50.00	11000.00	500.00
56 East Kinney st	Unusual light				
	False alarm				
150-152 Broad st	Careless use of candle	60.00		20000.00	
159 South Eleventh st	Gas leak and lighted candle		5.00		
148 Market st	Box of bread on furnace pipe				
	False alarm				
69 Hamilton st	Incendiary				
5 Oxford st	chimney fire				
211 Jefferson st	Stove pipe against partition	18.25	18.75	2000.00	1000.00
27 Dover st	Range against wall	75.00	10.00	2000.00	500.00
70 Peshine ave	Unusual smoke				
84 Springfield ave	Explosion of gas meter				
57 South Orange ave	Lighting christmas tree	45.00	75.00	2000.00	
223 Washington st	Back draught	15.00		5000.00	
267 Elm st	Careless use of matches	40.00	288.44	3400.00	1000.00
Ferry st	Unknown				
56 Jefferson st	Children and matches	10.00	10.00	8500.00	
470 North Fifth st	Explosion of oil lamp	30.00	22.50	2300.00	500.00
297 West Kinney st	Candle and curtain	35.00	175.00	3000.00	400.00
9-11 Comes alley	Lighted candle on Christmas tree	8.00	5.00	6000.00	

Date	Station	Time of Alarm	Return Call	No. of Fire	OWNER	OCCUPANT
Dec. 27	Still	7.45 a m		1538	Beck Brothers	Mrs. Miller
27	611	2.17 p m	2.30 p m	1539	Samuel Rosenthal	Harold Woolper
27	16	2.36 p m	2.44 p m	1540	Marcus L. Ward Estate	M. Blake
27	219	8.45 p m	9.55 p m	1541	Louis Friedman	Louis Rich
28	Still	11.09 a m		1542	Arthur Hensler	Mrs. E. Scully
28	446	4.56 p m	5.13 p m	1543	Christian Feigenspan	William Lowin
28	42	5.41 p m	6.06 p m	1544	Frelinghuysen Estate	Mrs. M. Farrell
28	642	6.13 p m	6.23 p m	1545	Charles Stamberg	Frank Mourey
28	717	6.56 p m	7.10 p m	1546	Gabriel Damico	Unoccupied
28	16	7.07 p m	7.41 p m	1547	Bureau of Associated Charities	Legal Aid Society
29	Still	7.50 a m		1548	Mrs. Raynor	John McCartney
29	Still	8.20 a m		1549	A. V. Genung	Apartment house
29	125	10.44 a m	10.59 a m	1550	Aaron Vanderhoof	E. J. Glover
29	633	1.23 p m	1.33 p m	1551	Sam. Zipkin	M. Asskanazi
29	145	2.56 p m	3.07 p m	1552	Gifford Plume	Oscar B. Hunt
29	567	3.48 p m	4.08 p m	1553	False alarm	
29	129	6.19 p m	6.35 p m	1554	Joseph DeVechio	Sabino Inbio
29	615	6.50 p m	7.08 p m	1555	Silver & Co	Harry Baron
29	147	10.12 p m	10.19 p m	1556	False alarm	
29	731	10.38 p m	11.10 p m	1557	M. Zemel	Julia McEnroe
30	652	11.50 a m	11.56 a m	1558	Robert Kay	Mr. Darling
30	551	2.21 p m	2.45 p m	1559	Frank Feldman	E. Farley
30	512	2.56 p m	3.15 p m	1560	Harry Freeman	Michael Bizer
30	Still	3.34 p m		1561	Mrs. Amil Chambers	Mrs. Amil Chambers
30	124	4.03 p m	4.19 p m	1562	Antonio Serritella	James Serritella
30	529	9.20 p m	9.29 p m	1563	False alarm	
31	732	4.45 a m	5.06 a m	1564	T. Rizzlo	Ambrose Harris
31	626	7.49 a m	8.04 a m	1565	Abraham Fishman	I. Shore
31	638	5.20 p m	6.04 p m	1566	H. Lustig	Samuel Platt
31	259	8.45 p m	8.55 p m	1567	Henry Lauterwasser	Anna W. Magie

Street and Number	Cause	Loss on Building	Loss on Contents	Ins. on Building	Ins. on Contents
71 Norfolk st	Soot in chimney				
63 Prince st	Gas leak	50.00	166.50	7000.00	3000.00
58 New st	Explosion of oil stove		12.00		1500.00
27½ South Orange ave	Overheated stove	750.00	537.00	3000.00	700.00
10 Littleton ave	Overheated chimney flue				
194 Heller Parkway	Lighted candles, christmas tree	35.00	20.00	3500.00	725.00
18 Mulberry st	Overheated range	60.00	10.00	2000.00	
265 Waverly ave	Lighted candle on Christmas tree	35.00	25.00	8000.00	
36 Nesbitt st	Careless use of matches				
13 Central ave	Soot in chimney				
48 Newton st	Soot in chimney				
149 Clifton ave	Hot ashes in box				
96 Bloomfield ave	Escaping steam				
527 South Eighteenth st	Children and matches	10.00	23.55	7000.00	500.00
134 Third ave	Christmas tree and match	100.00	111.00	3000.00	1500.00
	False alarm				
40 Cutler st	Children and matches		25.00		600.00
295 Bergen st	Careless use of matches		15.00		2000.00
	False alarm				
99 Highland ave	Explosion of oil lamp	100.00	20.00	5500.00	
509 South Fifteenth st	Unusual smoke				
84 Pennington st	Overheated stove	45.00	43.25	1300.00	1000.00
106 Van Buren st	Defective flue				
135 Pacific st	Soot in chimney				
35 Drift st	Children and matches	50.00	100.00	1800.00	300.00
	False alarm				
480 Chester ave	Supposed incendiary	90.00		1500.00	
67 Somerset st	Careless use of candle		15.00		
324 Bank st	Careless use of candle	381.25	450.00	10000.00	4100.00
144 Ridgewood ave	Spark from match	5.00	48.00	6000.00	500.00

SCHEDULE SHOWING THE NUMBER OF FIRES AND ALARMS IN EACH MONTH AND THE AMOUNT OF LOSS AND INSURANCE, FROM JANUARY 1, 1913, TO JANUARY 1, 1914

MONTH	Station Alarms	Still Alarms	Second Alarms	Third Alarms	Fourth Alarms	Total	Loss on Buildings	Loss on Contents	Insurance on Buildings	Insurance on Contents
January	99	19	5	2	1	118	$ 65,010.69	$140,897.00	$ 568,360.00	$ 149,654.44
February	114	21	2	....	....	135	24,337.62	54,398.08	374,800.00	240,750.00
March	97	30	3	1	....	127	26,925.72	80,015.31	254,450.00	253,373.17
April	96	21	2	1	....	117	16,194.10	31,400.06	497,267.00	190,390.53
May	103	32	2	....	....	135	8,516.23	14,709.89	254,300.00	76,200.00
June	108	33	2	....	....	141	14,840.65	45,937.47	672,725.00	724,730.40
July	113	29	1	....	....	142	13,816.62	14,720.83	400,500.00	215,950.00
August	93	29	1	....	....	122	13,995.55	36,664.20	298,050.00	159,550.00
September	93	30	....	....	....	123	14,736.00	7,151.65	351,700.00	34,725.00
October	73	39	....	....	....	112	6,186.24	3,510.10	319,350.00	126,250.00
November	113	37	1	....	....	150	10,218.38	15,617.93	393,300.00	138,950.00
December	111	34	....	....	....	145	9,059.25	20,234.12	373,350.00	76,386.16
Totals	1,213	354	19	4	1	1,567	$223,837.05	$465,256.64	$4,758,152.00	$2,386,909.70

Total insurance	$7,145,061.70
Total loss	689,093.69
Insurance over loss	$6,455,968.01
Building insurance over loss	4,534,314.95
Stock insurance over loss	1,921,653.06

ANNUAL REPORT

OF THE

Superintendent of Repairs

NEWARK, N. J., January 1st, 1914.

To the Honorable the Board of Fire Commissioners of the City of Newark, N. J.:

GENTLEMEN:—I have the honor, as Superintendent of Repairs, to submit my annual report of the repairs made to and the condition of the apparatus and hose in use in the department.

STEAM FIRE ENGINES.

On fifty-three occasions engines were received at the Repair shop, three for slight repairs, twenty-three for moderate repairs, seventeen for extensive repairs and ten were thoroughly overhauled. Ordinary repairs were made to engines while in company quarters one hundred and two times without removing them from service.

HOSE WAGONS, ETC.

Thirty-one hose wagons were received at the Repair Shop, of which two were slightly repaired, sixteen moderately repaired and thirteen were repaired extensively. On sixty-seven occasions wagons were repaired at company quarters without removal from service.

Three exercise wagons were slightly repaired at quarters, and on eleven occasions coal wagons and Chiefs' buggies were moderately repaired at the Repair Shop.

TRUCKS.

On fifty-one occasions repairs were made to hook and ladder trucks at company quarters and seven were moderately and four extensively repaired at the Repair Shop. One was thoroughly overhauled.

WATER TOWER.

Moderate repairs were made to Water Tower No. 1 at company quarters on one occasion.

FIRE SERVICE AUTOMOBILES.

Ordinary repairs were made to Fire Service automobiles without removing them from service on eleven occasions. On fifty-nine occasions auto cars were repaired at the Repair Shop. Twenty-seven of the jobs called for slight repairs twenty-three for moderate repairs, four for extensive repairs, four for a complete overhauling and one was rebuilt.

REPAIR SHOP AND TELEGRAPH CARS,

Thirty-seven times these cars were repaired at the Repair Shop. Nineteen times slightly, nine times moderately and on nine occasions extensively.

SERVICE OF EXTRA APPARATUS.

Extra engines were in service at various quarters, 504 days.

Extra hose wagons were in service at various quarters, 468 days.

Extra ladder trucks were in service at various quarters, 17 days.

RUBBER TIRES.

During the past year the tires of ninety wheels were repaired at the Shop.

The tires of forty-nine wheels were replaced with new tires.

Three were repaired by inserting a section of new tire, twenty-two by inserting a section of used tire and sixteen had the channel side wires renewed.

The following articles also received attention:

ARTICLES.	NO. REPAIRED.
Extinguishers	45
Chemical Nozzles	21
Chemical Hose (lengths repaired)	52
Hames (collars)	23
Harness Hangers	12
Lanterns	9
Gongs, Bells and Horns	10
Mogul Springs	35
Play Pipes	48
Play Nozzles	20
Diaphragms	12
FORGINGS.	
Wrenches—Nut and Wheel Cap	31
Special S Hooks	75
Large Engine Pokers	9
Special Forgings (not accounted for in other work)	9
SPECIAL WORK.	
Odd Jobs—Not previously mentioned	733
Steam Fitting—Engine Connection Work—Hours	149
Sunday Work—Hours	439
Night Work—Hours	155
Engines Cleaned at Repair Shop	15

HOSE.

One hundred and forty-nine lengths of hose were inspected and seventeen were water tested, of which seventy-seven lengths were repaired and one hundred and five condemned.

Forty-four repaired lengths were returned to service.

Respectfully submitted,

CHARLES A. CLYMER,
Superintendent of Repairs.

ANNUAL REPORT

OF THE

VETERINARY SURGEON

Newark, N. J., January 1st, 1914.

To the Honorable, the Board of Fire Commissioners, of the City of Newark, N. J.:

GENTLEMEN:—Complying with the rules and requirements of your Board, I herewith respectfully submit to you a report showing the operations, and giving the record, of that branch of the service with which I have the honor to be connected, and a description of the conditions existing during the twelve months ending December 31st, 1913.

There were on January 1st, 1913, one hundred and fifty-two horses in the department, assigned as follows:

For Engine Service	60
For Hose Wagon Service	40
For Hook and Ladder Service	24
For Chemical Engine Service	2
For Water Tower Service	3
For Deputy Chief's Use	2
For Battalion Chief's Use	5
For Supply Wagon Service	4
For Fire Alarm Telegraph Service	1
In Reserve	11
Total	152

The close of the year found the department with one hundred and fifty-two horses, distributed in this manner:

For Engine Service	62
For Hose Wagon Service	40
For Hook and Ladder Service	24
For Chemical Engine Service	2
For Water Tower Service	3
For Battalion's Chief's Service	5
For Supply Wagon Service	4
For Fire Alarm Telegraph Service	2
In Reserve	10
Total	152

The reserve horses are stabled at the following company quarters: Engine Company No. 2, Engine Company No. 17, Engine Company No. 18, Engine Company No. 19, Engine Company No. 20, Engine Company No. 22, Hook and Ladder Company No. 2, Hook and Ladder Company No. 6, Hook and Ladder Company No. 7 and Hook and Ladder Company No. 8.

The cases that called for treatment, with cause of disability, and other information, were enumerated and described in statements forwarded monthly to the Board.

During the month of January there were thirty-four cases requiring medical or surgical treatment; February, 17; March, 28; April, 19; May, 17; June, 20; July, 18; August, 20; September, 16; October, 16; November, 14; December, 14.

Appended is a list of ailments treated:

Lacerations and other injuries due to accident	70
Diseases of locomotory apparatus	54
Fracture	2
Laryngitis	2

Influenza	15
Flatulent colic	3
Spasmodic colic	6
Heart disease	1
Cystitis	1
Epistaxis	2
Intestinal obstruction	2
Azoturia	6
Polyuria	1
Ophthalmia	6
Rheumatism	1
Abscess	1
Catarrh	3
Anorxia	5
Septicemia	2
Superfungation	1
Lymphangitis	2
Cellulitis	5
Oedema	8
Anasarca	2
Skin diseases	21
Myelitis	1
Intestinal parasites	2
Cyst	1
Coryza	3
Glossitis	2
	221

On January 11th, horse No. 59, attached to No. 2 Hose Wagon, after responding to a second alarm of fire, dropped dead at the corner of Magazine and Berlin Streets. Death was due to heart disease. On April 16th, horse No. 133, attached to No. 13 Steamer, collided with a trolley car at the corner of Market and Halsey Streets, and sustained a

broken leg. On October 19th, horse No. 117, attached to the Reserve Stables, affected with myelitis, was destroyed by order of the Board.

On November 5th, horse No. 81, attached to No. 17 Steamer, while en route to a fire, collided with a trolley car at corner of Clinton and Badger Avenues, and broke its near hind leg.

Within the period of the year eight horses were sold, three were exchanged and twelve new ones were added to the equine force. A considerable number of horses that have been long in the service are gradually succumbing to the wear and tear of work and years. They should be replaced by more vigorous animals.

In view of the unprecedented number of alarms during 1913, and the unusually large list of accidents, I trust I may be pardoned for expressing gratification at the record for the year just passed. And in appreciation of the showing made, I extend my sincere thanks to the Commissioners for their generous co-operation in supplying whatever was needed for the health and welfare of the horses, and to the Chief, Captains, Lieutenants, Firemen and those in the Reserve Stable for the hearty assistance accorded me in the work that came within the veterinary branch of the service.

Very truly yours,

JAMES T. GLENNON,
Veterinary Surgeon.

ANNUAL REPORT

OF THE

DEPARTMENT SURGEON

NEWARK, N. J., January 1st, 1914.

To the Honorable the Board of Fire Commissioners of the City of Newark, N. J.:

GENTLEMEN:—I have the honor, as department Surgeon, to submit my annual report for the year ending December 31st, 1913.

On January 1st, 1913, the total manual force of the Department was four hundred and fourteen men, and at the close of the year there were four hundred and thirty-one, a net increase of seventeen.

In accordance with the provisions of the statute of this State, Chapter 270, Year 1912, five members of the Department were retired. The names are appended:

Isaac W. Van Houten (Captain).

Walter S. Harrison (Captain).

Robert H. Park (Captain).

George W. Leffingwell (Lieutenant).

John J. Schaeffer (Fireman).

In the active uniformed force there were no deaths; one resignation and one dismissal.

During 1913 in order to bring the Department up to its proper numerical strength, there were appointed twenty men from the Civil Service list.

Prior to appointment as firemen, the above were thoroughly examined and separate reports submitted to your Board.

All calls for professional services at fires of any magnitude were promptly responded to.

Each of the fire houses has been inspected several times in regard to cleanliness and sanitation in general and has been found in good condition.

Valuable additions to our equipment are the Pulmotor and Smoke Helmet, now installed on the Searchlight car. The company in charge of this has been taught and drilled in the proper uses of the same.

In monthly reports, there were submitted to your Board the names of those disabled and such other facts as seemed necessary to state.

A summary of the number is here given:

MONTH	Number Injured	Number Ill	Total
January	7	22	29
February	1	20	21
March	6	25	31
April	7	7	14
May	3	9	12
June	3	13	16
July	5	14	19
August	4	5	9
September	6	14	20
October	3	9	12
November	6	6	12
December	3	15	18
Totals	54	159	213

ANNUAL REPORT

OF THE

Superintendent of Fire Alarm Telegraph

NEWARK, N. J., January 1st, 1914.

To the Honorable the Board of Fire Commissioners of the City of Newark, N. J.:

GENTLEMEN:—I herewith submit my report for the year ending December 31st, 1913.

Fire alarm wires are attached to manay of the poles of the Public Service Company and the New York Telephone Company, and as these companies practically rebuilt all their aerial lines during the past year, corresponding changes had to be made to fire alarm circuits. As a result the aerial lines were greatly benefited, but the very important work of dividing the overloaded box circuits was necessarily delayed.

During the year 1,750 feet of 10 conductor and 3,000 feet of 5 conductor lead cable was purchased for the underground lines. Fifteen miles of No. 12 insulated copper wire was purchased for the installation of new fire alarm stations and in replacing defective conductors.

NEW SIGNAL BOXES.

Fifteen public and nine private boxes were installed and located as follows:

Public Stations—

243 Sherman avenue and Runyon street.
267 Pomona avenue and Hedden street.
2124 Dayton and Foster streets.
369 South Canal below Lawrence street.
55 Van Buren and Nichols streets.
555 Lafayette and Van Buren streets.
562 Jackson and Downing streets.
577 Lafayette and Merchant streets.
582 Darcy and Alyea streets.
675 Sanford avenue and Finlay place.
698 Sixteenth street and Eighteenth avenue.
699 Seventeenth avenue and Seventeenth street.
738 Bloomfield and Roseville avenues.
739 Warren and Nuttman streets.
367 Lafayette and Mulberry streets.

Private Stations—

87 Little Sisters of the Poor, Ninth avenue, between Eighth and Ninth streets.
93 Metropolitan Theatre, Montgomery and Charlton streets.
99 Hippodrome, Broad and Hill streets.
168 Young Women's Christian Association, Washington street.
328 Ferris Brothers, 96 Shipman street.
368 Scholsstein Building, 99 Lafayette street.
564 Oscar Scherer & Brother, Berlin and Magazine streets.
831 Public Service, Plank road and Passaic river.
917 Keeney's Theatre, Halsey street and Branford place.

ALARMS.

Twelve hundred and thirteen first, nineteen second, four third, one fourth and nine special calls were received and transmitted.

Respectfully submitted,

Adam Bosch,
Superintendent of Fire Alarm Telegraph.

NEWARK FIRE ALARM BOXES

NO. OF STATION.

4....No. 4 Engine House, High street.
5....Reserve Stable, Prospect street.
6....No. 6 Engine House, Springfield avenue.
7....No. 7 Engine House, Hudson street and Wallace place.
8....No. 8 Engine House, Ferry and Fillmore streets.
9...*Peddie Memorial Church.
12....Central avenue and Burnett street.
13....No. 2 Truck House, Plane street.
14....Plane and Hackett streets.
15....Broad and Lombardy streets.
16....Washington and Bleecker streets.
17....Broad and North Canal streets.
18....Broad and New streets.
19...*Domestic Sewing Machine Co.
21....Broad and Market streets.
21....Broad and Mechanic streets.
23....No. 3 Engine House, Court street.
24....Market and Washington streets.
25....Washington and Kinney streets.
26....Clinton avenue and Washington street.
27....Broad and Astor streets.
28....Clinton and Elizabeth avenues.
29....No. 10 Engine House, Astor street.
31....Thomas and Mulberry streets.
32....Chestnut street and N. J. R. R. avenue.
33...*Logan's Stables, Pearl street.
34....Mulberry and Walnut streets.
35....N. J. R. R. avenue and Elm street.
36....Market Street Depot.
37....Hamilton and Columbia streets.
38....Market and Mulberry streets.
39....Pennington and Pearl streets.
41....Cherry and Canal streets.
42....Mulberry and River streets.

* PRIVATE BOX.

NO. OF STATION.

43....Front and Rector streets.
45....Bridge and Ogden streets.
46...*Meeker and Hedden's, Ogden street.
47....Spring street, opposite Eighth avenue.
48....Clay and Ogden streets.
49....Broad and Gouverneur streets.
51....Hamilton and Union streets.
52....Ferry and Madison streets.
53....Gas Works, Jersey street.
54....Market street, near Monroe street.
55....Van Buren and Nichols streets.
56....Market and Ferguson streets.
57....Bowery and Freeman streets.
58....Chapel street and Albert avenue.
59....Plank road, near Waydell street.
61....Springfield avenue and William street.
61....Springfield avenue and Prince street.
62....Springfield and Fifteenth avenues.
63....Kinney and Broome streets.
64....South Orange avenue and Beacon street.
65....Lillie street and Seventeenth avenue.
67....Bruce street and Thirteenth avenue.
68....Eighteenth avenue and Boyd street.
69....Nineteenth street and Twelfth avenue.
71...*Howell's, New and Wilsey streets.
72....Orange and Boyden streets.
73....Summer and Seventh avenues.
74....Sussex avenue and Nesbitt street.
75....Sussex avenue and Warren street.
76....Central avenue and Duryea street.
77....Sussex avenue and Fifth street.
78....Central avenue and Lock street.
79....Bloomfield avenue and Fourth street.
81...*St. Michael's Hospital, High street.
82...*Newark Orphan Asylum, High street.
83...*Home for the Friendless, South Orange avenue.
84...*St. Peter's Orphan Asylum, Lyons avenue.
85...*Hebrew Orphan Asylum, Clinton avenue.
86...*House of the Good Shepherd, Thirteenth avenue.
87...*Little Sisters of the Poor.
91...*Newark Theatre.

* PRIVATE BOX.

NO. OF STATION.

92...*Gayety Theatre.
93...*Metropolitan Theatre.
94...*Washington Theatre.
95...*Columbia Theatre.
96...*Proctor's Theatre.
97...*New Auditorium, Orange street.
98...*Lyric Theatre, Market street.
99...*Hippodrome Theatre, Hill and Broad streets.
121....Junction of Orange and Warren streets.
122...*Licorice Works, North Third street.
123....Roseville avenue and Orange street.
124....Clifton and Seventh avenues.
125....Summer and Bloomfield avenues.
126....Orange and Hudson streets.
127....Fifth avenue and Parker street.
128....Sheffield and Nassau streets.
129....Sixth avenue and Cutler street.
131....Sussex avenue and First street.
132....Roseville and Sixth avenues.
133....Central avenue and Fourth street.
134....Fifth avenue and Seventh street.
135....Orange and Third streets.
136...*Borden Milk Company, Fourteenth street.
137....Warren and First streets.
138....Sixth avenue and Thirteenth street.
139....Littleton avenue and Cabinet street.
141....Garside street and Fifth avenue.
142....Fourth avenue and Ninth street.
143....Central avenue and Twelfth street.
144....Bloomfield and Mt. Prospect avenues.
145....Garside street and Third avenue.
146....Seventh avenue and Factory street.
147....Eighth avenue and Factory street.
148...*Cogswell & Boulter Co., High street and Eighth avenue.
149...*Free Public Library.
151...*Hahne & Co., Halsey street.
152...*Snyder & Co., Broad and Cedar streets.
153...*Whitehead & Hoag Co., Washington and Warren streets.
154...*Hahne & Co., Broad and New streets.
155....Eleventh avenue and Tenth street.
156...*Arcade Theatre, Halsey street.

* PRIVATE BOX.

NO. OF STATION.

157...*American Insurance Company, Park place.
158...*Y. M. C. A., Halsey street.
159....Warren street and Gould avenue.
161...*F. A. Thum, 177 North Seventh street.
162...*School of St. Rose of Lima Church, Warren and Gray streets.
163...*Crescent Watch Case Co., 113 Thirteenth avenue.
164....Seventh avenue and Eleventh street.
165....Eleventh avenue and Seventh street.
168...*Young Women's Christian Association, Washington street.
212....High and Academy streets.
213....Academy and Halsey streets.
214....Washington and William streets.
215....Pennsylvania avenue and Vanderpool street.
216....Elizabeth avenue, in front of Alms House.
217...*Court House.
218....High street and Nelson place.
219....Springfield and South Orange avenues.
221...*Jenkinson's Factory, Washington street.
223....Bleecker and Halsey streets.
224....Alpine street and Johnson avenue.
225....Frelinghuysen avenue and Earl street.
226....Elizabeth avenue and Alpine street.
227....Stratford place and Rose street.
228....Clinton and Belmont avenues.
231....Waverly avenue and High street.
232....Waverly and Belmont avenues.
233....Clinton avenue and Bergen street.
234....William and Shipman streets.
235....Broad street, opposite Chestnut street.
236....Clinton and Jelliff avenues.
237....Broad and South streets.
238....Broad and Marshall streets.
239...*Unger Bros., Halsey street.
241....Avon and Badger avenues.
242....Waverly and Jelliff avenues.
243....Sherman avenue and Runyon street.
244...*D. Loprete's rag factory, Frelinghuysen avenue.
245....Frelinghuysen avenue near Ward's tannery.
246....Frelinghuysen avenue near Weston's factory.
247....Pennsylvania Railroad Freight Station, Waverly.
248...*Mergott & Co., Jelliff avenue.

* PRIVATE BOX.

NO. OF STATION.

249....Avon avenue and Fifteenth street.
251....Clinton avenue and Osborne terrace.
252....Clinton and Edmond place.
253....Clinton avenue and Leslie street.
254....Leslie street and Hawthorne avenue.
255....Bragaw avenue and Hobson street.
256....Clinton place and Lyons avenue.
257....Watson and Peshine avenues.
258....Upper Elizabeth road and Watson avenue.
259....South Belmont avenue and Bigelow street.
261...*Newark Grain and Hay Company, Clifton street and Frelinghuysen avenue.
262....Seymour avenue and Runyon street.
263...*Lehigh Valley Railroad Freight Yard, Pennsylvania avenue and Poinier street.
264....Elizabeth and Renner avenues.
265...*Tegen & Wiebke, Avon and Badger avenues.
266....Elizabeth and Chancellor avenues.
267....Pomona avenue and Hedden street.
268....Avon avenue and Bergen street.
269....Peshine avenue and Rose street.
271....Hunterdon street and Eighteenth avenue.
272....Madison avenue and Eighteenth street.
273....Renner avenue and Bergen street.
274....Schley street and Nye avenue.
275....Chancellor avenue and Clinton place.
276...*Telephone Exchange, Avon avenue and Hunterdon street.
277....Millington avenue and Ingraham place.
278....Frelinghuysen and Evergreen avenues.
279....Clinton avenue and Eighteenth street.
281....Hawthorne avenue and Bergen street.
282....Avon avenue and Nineteenth street.
283....Avon and Treacy avenues.
284...*Ziegel & Eisman Co., 93 Frelinghuysen avenue.
285....Elizabeth and Lyons avenues.
286....Madison avenue and Twelfth street.
287....Fabyan place and Selvage street.
288....Frelinghuysen avenue and Clifton street.
289...*Carnegie Steel Works, Waverly.
291...*Carnegie Steel Works, Waverly.
292...*R. C. & H. B. Good, 140 Frelinghuysen avenue.

* PRIVATE BOX.

NO. OF STATION.

293....Johnson avenue and Bigelow street.
294...*J. F. Glasby Lumber Company, 9 Badger avenue.
295....Waverly avenue and Broome street.
296....Sherman avenue and Stanton street.
297....Hawthorne and Belmont avenues.
298....Madison and Seymour avenues.
299....Clinton avenue and South Tenth street.
2124...Dayton and Foster streets.
312....Broad and Green streets.
313...*American Undergarment Co., Green street.
314....Kinney and Orchard streets.
315...*Bee Hive, 717 Broad street (L. S. Plaut & Co.)
316...*Krementz & Co., Chestnut and Mulberry streets.
317....Mulberry and Astor streets.
318...*Parmelee Hat Co., N. J. R. R. avenue and Miller street.
319...*Robinson-Roders Co., N. J. R. R. avenue and East Mechanic street.
321....Railroad place and River street.
322....Branford place and Halsey street.
323....Lawrence and Mechanic streets.
324....Market and Ward streets.
325....Clinton and Beaver streets.
326....Murray street and Tichenor lane.
327...*Groedel Building, Plane street.
328...*Ferris Brothers, 96 Shipman street.
329...*Mutual Benefit Life Insurance Co., Broad and Clinton streets.
331...*Prudential Building.
332...*Prudential Building.
334...*Prudential Building.
335...*Prudential Building.
336...*Prudential Building.
337...*Prudential Building.
338...*Prudential Building.
339...*Prudential Building.
341...*J. W. Greene & Co., 33 Market street.
342...*Wharton's Factory, 142 Commerce street.
343...*City Hall.
344...*Baker & Co., N. J. R. R. avenue and Murray street.
345...*Newark Warehouse, Mechanic and Ward streets.
346...*Gould & Eberhardt, N. J. R. R. avenue.
347...*Newark Gear Cutting Machine Co., 66 Union street.

* PRIVATE BOX.

NO. OF STATION.

349...*American Oil & Supply Co., 52 Lafayette street.
351...*Wilkinson-Gaddis & Co., Broad and Lafayette streets.
352...*F. W. Devoe & C. T. Reynolds Co., N. J. R. R. avenue and Oliver street.
353...*Lyon & Sons' Brewery, 97 Canal street.
354....Centre Market and Mulberry street.
355....Halsey and Pearl streets.
356...*New York Telephone Building, Washington street.
357...*Evening News Co., Market street.
358...*St. Benedict's Parish Buildings, 520 High street.
361...*Prudential Building.
362...*Prudential Building.
363....Market and Arlington streets.
364....Court and Arlington streets.
365...*Barrett-Brown Building, Hamilton street and N. J. R. R. avenue.
366...*Wiss Building, 665 Broad street.
367....Lafayette and Mulberry streets.
368...*Schlosstein Building, 99 Lafayette street.
369....South Canal, below Lawrence street.
412....Belleville avenue and Oriental street.
413....Washington and Ellwood avenues.
414....Washington avenue and Halleck street.
415....Mt. Prospect avenue, apposite Mt. Prospect place.
416....Summer and Verona avenues.
417....Chester avenue and Hinsdale place.
418....Highland and Verona avenues.
419....Summer avenue and Nursery street.
421....Broad street and M. & E. R. R. avenue.
422....John street and Eighth avenue.
423....Broad street and Belleville avenue.
424....Belleville and Arlington avenues.
425....Erie Depot, foot of Fourth avenue.
426....Bloomfield and Belleville avenues.
427....Summer and Chester avenues.
428....Verona and Riverside avenues.
429....Highland avenue and Heller Parkway.
431...*Gas Works, Front street.
432...*Ballantine's Brewery, Front street.
432...*Ballantine's Malt House, Front street.
433...*Standard Oil Co., foot of Third avenue.

* PRIVATE BOX.

NO. OF STATION.

434....Belleville and Fourth avenues.
435....Clark and Passaic streets.
436....Grafton and Riverside avenues.
437....Washington and Verona avenues.
438...*Tiffany's Factory, Highland avenue and G. L. R. R.
439....Chester avenue and Erie place.
441....Mt. Prospect and Delavan avenues.
442....Centre street and Saybrook place.
443...*Smith & Wallace Co., Ogden and Division streets.
445...*Alderney Milk Co., Bridge street.
446....Rear of Greenhouses, north end of Branch Brook Park.
447...*Morris Manufacturing Co., Cross street.
448...*J. M. Quimby & Co., Division and Spring streets.
449...*Continental Hotel, Broad street.
451....Bridge and Broad streets.
452...*Clark's Thread Works, Clark and Passaic streets.
453...*Clark's Thread Works, Kearny.
454...*Linen Thread Works, Kearny.
456...*Heller Bros. Co., 879 Mt. Prospect avenue.
457....Mt. Prospect and Berkley avenues.
458...*D., L. & W. R. R. Freight Depot, Broad street.
459...*D., L. & W. R. R. Passenger Depot, Plane street.
461...*Miles W. Baney & Bros., stable, Bridge street.
462...*George Brown & Co., stone yard, 270 Passaic street.
463....Elwood avenue and Ridge street.
464...*P. R. R. Freight Depot, River street.
465....Broad street and Third avenue.
466...*Telephone Exchange, 63 Bloomfield avenue.
467...*James Crowell & Co., foot of Cross street.
468...*Seton Leather Co., Verona avenue and Oraton street.
469....Summer avenue and Heller parkway.
471....Montclair avenue and Ridge street.
472...*Patton Paint Co., foot of Chester avenue.
473....Mt. Prospect and Sylvan avenues.
474....Montclair and De Graw avenues.
475....Ballantine parkway and Parker street.
476...*Strieby & Foote Co., 301 Ogden street.
477...*Home for Aged Women, 225 Mt. Pleasant avenue.
512....Ferry and Polk streets.
513..Hamburg place, between Bremen and Komorn streets.
514....Main and Kossuth streets.

* PRIVATE BOX.

NO. OF STATION.

515....Elm and Pacific streets.
516....Van Buren and Malvern streets.
517...*Blanchard Bros. & Lane, Bruen street.
518...*Celluloid Novelty Works.
519....Paterson and Alyea streets.
521....New York avenue and N. J. R. R. avenue.
522...*Celluloid Novelty Works, Ferry and Ashbridge streets.
523...*Hensler's Brewery, Hamburg place.
524....Nichols and Adams streets.
525....Avenue C., between Murray and Harper streets.
526....Adams and Elm streets.
527...*Zinc Works.
528...*Hat Factory, Polk and Clover streets.
529....Market and Bowery streets.
531...*Lister's Factory, Lister avenue.
532...*Ballantine's Brewery, Freeman street.
533...*Lane Glue Works, Plank road.
534...*Celluloid Brush Works, Komorn street.
535...*Feigenspan's Brewery, Freeman street.
536...*Heller & Merz Blue Works, Hamburg place.
537...*Peddie's Factory, St. Francis street.
538....Albert avenue and Esther street.
539....Chapel and Bowery streets.
541....Chestnut, near Pacific street.
542....McWhorter and Oliver streets.
543....New York avenue and Jefferson street.
544....Walnut and Tyler streets.
545...*Cooper Chemical Co., Van Buren street.
546...*Hay Foundry, Plum Point lane.
547....Jefferson and Malvern streets.
548....New York avenue and Ann street.
549...*Balbach's Works, Passaic avenue.
551....Hermon and Tichenor streets.
552....Garden and Pacific streets.
553....Polk and Clover streets.
554....Komorn and Niagara streets.
555....Lafayette and Van Buren streets.
556....Elm road and Gotthart street.
557....Magazine street and Avenue L.
558....Jefferson and Lafayette streets.
559...*P. Reilly & Sons, Passaic avenue.

* PRIVATE BOX.

NO. OF STATION.

561...*Flood & Conklin, Chestnut street.
562....Jackson and Downing streets.
563...*Sherwin & Williams Co., Lister avenue.
564...*Oscar Scherer & Bro., Berlin and Magazine streets.
565....Miller street and Avenue C.
566...*Butterworth & Judson Co., foot of Plum Point lane.
567...*Car Barns, Plank road.
568...*Murphy Varnish Co., McWhorter and Vesey streets.
569...*Merchants' Express Co. dock, foot of Madison street.
571....South and Pacific streets.
572...*Rubber and Celluloid Harness Trimming Co., 56 Ferry street.
573....Oliver and Tyler streets.
574....Hawkins street and Brinsmaid place.
575...*Central Stamping Co., 591 Ferry street.
576...*Hess & Harburger, 68 Amsterdam street.
577....Lafayette and Merchant streets.
578...*Celluloid Co., Komorn and St. Francis streets.
579....Ferry and St. Francis streets.
581...*Spratt's Factory, Market and Congress streets.
582....Darcy and Alyea streets.
583...*Foster Engineering Co., 109 Monroe street.
584...*Atha Tool Co., Chapel street and Lister avenue.
585...*J. S. Mundy's Factory, Prospect street.
587....Thomas and Dawson streets.
588....Ferry and Brill streets.
589...*Peckham Manufacturing Co., 238 South street.
591....Lafayette and Bruen streets.
592...*R. Neuman Hardware Co., 9 St. Francis street.
593....N. J. R. R. avenue and Miller street.
595....Hamburg place and Berlin street.
596...*J. H. Ladew Co., Plank road and Passaic river.
597...*St. Benedict's Church Buildings, Niagara and Komorn streets.
598....Magazine and Darcy streets.
599....Adams and South streets.
612....Court and West streets.
613....Bank and Wickliffe streets.
614....Springfield avenue and South Tenth street.
615....Camden street and Fifteenth avenue.
616....Springfield avenue and Magnolia street.
617....Springfield avenue and Seventeenth street.

* PRIVATE BOX.

NO. OF STATION.

618....Springfield avenue and Fourteenth street.
619....Morris and Fourteenth avenues.
621....Fifteenth avenue and South Tenth street.
622...*City Hospital, Camden street.
623....South Orange avenue and Newton street.
624....Camden and Bank streets.
625....Montgomery and High streets.
626....Barclay and Spruce streets.
627....High and Mercer streets.
628....Twelfth avenue and Ninth street.
629....Blum and South Tenth streets.
631....Littleton and Thirteenth avenues.
632....South Orange avenue and Sixteenth street.
633....Eighteenth street and Sixteenth avenue.
634....South Orange avenue and Ninth street.
635....South Orange avenue and Bergen street.
636...*Eagle Brewery, Hayes street.
637....South Orange avenue and Howard street.
638....Norfolk and Bank streets.
639...*Goertz, Factory, Morris avenue.
641....Eighth street and Sixteenth avenue.
642....Waverly avenue and Bergen street.
643....Belmont avenue and Montgomery street.
644....Waverly and Eighteenth avenues.
645...*Henry Lang Co., Lillie street and Seventeenth avenue.
646...*Krueger Auditorium, Belmont avenue.
647....Fourteenth avenue and Seventh street.
648....Thirteenth avenue and Eighth street.
649...*New Jersey Aluminum Co., Springfield avenue and Nineteenth street.
651....Thirteenth avenue, between High and Howard streets.
652....Fifteenth avenue and Fifteenth street.
653...*Kastner's Brewery, Lewis street.
654....West Kinney and Livingston streets.
655....Boston street and Thirteenth avenue.
656....C. M. Hedden & Co., 232 Thirteenth avenue.
657...*Krueger Brewery, 75 Belmont avenue.
658...*Colosseum, 457 Springfield avenue.
659...*Johnston & Murphy, 42 Lincoln street.
661..South Orange avenue and Grove street.
662....Speedway and Fourteenth avenue.

* PRIVATE BOX.

NO. OF STATION.

663....South Orange and Munn avenues.
664....Vermont avenue and Record street.
665....Alexander street, opposite School.
667....South Orange avenue and Boylan street.
668....Stuyvesant avenue and Silver street.
669....South Orange and Sanford avenues.
671....Sanford avenue and Noll place.
672....St. Paul and Cliff streets.
673...*Maybaum & Sons, South Orange avenue.
674....Sanford avenue and Netherwood place.
675....Sanford avenue and Finley place.
676...*Public Service Railway car barn, 16th avenue and 20th street.
677....Littleton and Sixteenth avenues.
678....South Orange and Littleton avenues.
679....Bruce street and Fifteenth avenue.
681...*Homeopathic Hospital, 133 Littleton avenue.
682....Nineteenth avenue and Nineteenth street.
683....West Kinney and Sayre streets.
684....Prince and Morton streets.
685....Fourteenth avenue and Thirteenth street.
686....Springfield and Fairmount avenues.
687....Smith street, north of South Orange avenue.
688....Brookdale avenue and Abinger place.
691...*Mangels & Schmidt Co., 249 Hunterdon street.
692....Fourteenth avenue and Hayes street.
693....West and West Kinney streets.
694....Fourteenth avenue and Seventeenth street.
695....Sixteenth avenue and Thirteenth street.
696....Belmont avenue and Morton street.
697....Springfield avenue and Bedford street.
698....Sixteenth street and Eighteenth avenue.
699....Seventeenth avenue and Seventeenth street.
712....New and Newark streets.
713...*R. G. Solomon's Tannery, Sussex avenue.
714....New and Colden streets.
715....Warren and Summit streets.
716...*Solomon's Factory, Nesbitt street.
717....Orange and Nesbitt streets.
718...*Heath's Factory, Warren and Newark streets.
719...*Briscoe Manufacturing Co., Summit nad Bleecker streets.
721....Sussex avenue and Norfolk street.

* PRIVATE BOX.

NO. OF STATION.

722....New and Arch streets.
723...*D., L. & W. R. R. coal pockets, High street.
724...*Hahne & Co.'s Stables, High street, near Canal.
725...*Van Orden Corset Co., Wickliffe and School streets.
726...*J. Wiss & Sons, Littleton avenue.
727...*German Hospital, Bank and Newton streets.
728....Ninth avenue and Eleventh street.
729....Seventh and Fourth streets.
731....Old Car Barns, Bloomfield avenue.
732....Seventh street and Berkeley avenue.
733....Clifton and Third avenues.
734...*William Crabb & Co., Third avenue and Third street.
735....Morris avenue and Cabinet street.
736....Parker street and Second avenue.
737....Fifth street and Third avenue.
738....Bloomfield and Roseville avenues.
739....Warren and Nuttman streets.
823...*Car Barns, South Orange avenue and Nineteenth street.
824...*Car Barns, Bergen street and Madison avenue.
825...*Car Barns, Springfield avenue and South Tenth street.
826...*Power House, City Dock.
827...*Car Barns, Central avenue and South Fourteenth street.
831...*Public Service, Plank road and Passaic River.
912...*Court Theatre, High street and Nelson place.
913...*Odeon Theatre, 100 Springfield avenue.
914...*Orpheum Theatre, 383 Washington street.
915...*Shubert Theatre, Broad and Fulton streets.
916...*Miner's Theatre, 267 Washington street.
917...*Keeney's Theatre, Halsey street and Branford place.
921...*Newark High School, Sixth avenue and Parker street.
922...*Summer Avenue School, Summer Avenue, near Van Wagenen street.
923...*South Tenth Street School, South Tenth and Blum streets.
924...*South Eighth Street School, South Eighth street, near Central avenue.
925...*Seventh Avenue School, 134 Seventh avenue.
926...*North Seventh Street School, 309 North Seventh street.
927...*Monmouth Street School, between Montgomery and Spruce streets.
928...*Franklin School, Park avenue and Cutler street.
931...*Elliott Street School, Elliott street and Summer avenue.

* PRIVATE BOX.

NO. OF STATION.

932...*Chestnut Street School, between Orchard and Mulberry streets.
933...*Charlton Street School, Charlton street and Waverly avenue.
934...*Belmont Avenue School, Belmont avenue and West Kinney street.
935...*Ann Street School, between New York avenue and Elm road.
936...*Abinger Avenue School, Abinger avenue and North Seventh street.

* PRIVATE BOX.

ANNUAL REPORT

OF THE

Bureau of Combustibles and Fire Risks

NEWARK, N. J., January 1st, 1914.

To the Honorable, the Board of Fire Commissioners of the City of Newark, N. J.:

GENTLEMEN:—The annual report of the Bureau of Combustibles and Fire Risks for the year ending December 31, 1913, is herewith submitted.

Instead of making the concluding paragraph of the report an incidental reference to co-operation and support, I beg leave to declare, at the very beginning, that the five members of the Fire Department, detailed to this office, have done yeoman service in the cause of fire prevention. They have been energetic, interested and indefatigable and by their work have helped to make Newark a safer place in which to live. The keen interest in fire prevention manifested by Chief Engineer Paul J. Moore and his intelligent co-operation by lending the resources of the department under his jurisdiction, have made Newark an honor city among American municipalities seeking to prevent loss of life and property by fire.

Your bureau has made careful investigation of every fire, a system of complete records, including fire causes, losses, kind of building, occupation and many other items, having been finally evolved in the latter half of the year, so

that the statements in this report are based upon personal knowledge. The helpfulness of your secretary has made this possible. These detailed records are original departmental records for the first time since the creation of a fire department in this city.

There were 1.567 alarms in the city of Newark in 1913, this being an increase of 85 alarms over the preceding year. However, there were 94 more false alarms than in 1912, and the records therefore show that in the number of actual fires the city has been more than holding its own, despite the large increase in population and in buildings.

In the matter of losses there is cause for congratulation, as the following figures will show at a glance:

Years.	Losses.
1913	$ 689,093.69
1912	1,097,555.46
Decrease	408,461.77

These figures are eloquent in praise of the efficiency of the Newark Fire Department.

TWENTY-SEVEN PERSONS BURNED.

Unfortunately, there were twenty-seven deaths due to burning last year, which was seven more than in 1912. Of these twenty-seven fatalities, only eight were adults, and seven of these eight were women. Six women were burned to death while attending to household duties, in each case the kitchen stove being the secondary cause. Pouring kerosene oil on smouldering kitchen fires claimed three victims.

Nineteen children were burned to death. Of these, fifteen were less than five years old, and there was one each of six, seven, eight and twelve years of age. Four of

the children were burned at bonfires, an item which compares favorably with the usual record of ten and twelve in previous years. Thirteen children, who had gained possession of matches, were fatally burned.

Of the adults who died of burns, one was sixty-five years old, another was seventy years, a third was eighty-four, and another was eighty-five years old. In nearly every case extreme youth or extreme age is revealed in the record.

There seems no method or system, no mode of persuasion or legal way of preventing such unfortunate accidents.

The city added another Fourth of July without an accident to its credit, duplicating the experience of 1912.

THE YEAR'S LOSSES.

Of the total number of alarms during the year, 1,567, there were 830 alarms against which no losses are charged. These were false alarms, needless alarms, fire scares and small fires which were quickly extinguished. Oddly enough the same kind of alarms, without loss, in 1912, numbered 811, a difference of only thirteen.

The amount of loss, as arranged in groups and compared with the figures of 1912, is given in the subjoined table.

1912	Groups	1913
88	False Alarms	182
88	Needless Alarms	101
635	No loss recorded	547
326	Under $100	448
248	Between $100 and $1,000	213
82	Between $1,000 and $10,000	61
15	More than $10,000	15
1,482		1,567

In the grouping of fires as to causes there is clearly apparent a line of action for fire prevention work. To learn that there were only twelve fires from hot ashes during the year with the small loss of $225, and only 26 rubbish fires where the loss was not much more than $2,000, is proof that the energy of the department in making people "clean house" was productive of much good and proves encouraging.

On the other hand, 206 chimney fires seem to be just 206 too many, but to prevent these is a most difficult problem. Careless use of matches resulted in 271 fires. If people cannot be taught to be careful it might be well to take the ordinary matches away from them. Fortunately the safety match, which strikes only on the box and which is now being manufactured in this country, is coming into more general use. The lives of many children will be spared when the strike-anywhere match is prohibited by law.

THE CAUSES OF FIRES.

As an important part of the records, the accompanying figures are submitted, showing the number of fires from each cause and the amount of loss from each group of causes:

No. of Fires.	Causes.	Losses.
12	Ashes	$ 225.00
19	Backfire	2,024.99
72	Brush and bonfires	1,627.00
30	Candles	2,817.68
206	Chimneys	4,523.37
41	Electricity	24,211.32
182	False alarms	.....
7	Friction	24,367.00
17	Furnaces	105,171.25

61	Gas; jets, stoves, etc	5,887.25
19	Gasoline	3,036.59
20	Lightning	785.25
271	Matches	77,326.50
61	Miscellaneous	9,218.65
101	Needless	.....
7	Ovens (factories)	48,921.10
49	Oil stoves, lamps, etc	4,315.50
26	Rubbish	2,234.16
107	Smoking	60,602.23
22	Sparks from locomotives	14,098.53
18	Spontaneous combustion	32,983.40
92	Stoves, pipes, etc	64,239.40
39	Suspicious and incendiary	30,663.99
11	Torches	3,043.69
4	Thawing pipes	60.00
73	Unknown	166,709.84
1567		$689,093.69

PER CAPITA LOSS, $1.68

The small total loss for Newark in 1913 has reduced the per capita loss from $2.74 in an estimated population of 400,000 in 1912, to a per capita loss in 1913 of $1.68 in an estimated population of 410,000.

The daily average loss during the year was $1,887.98. The year before it was $2,998.78.

Fires occurred in 384 frame buildings, 297 brick buildings, 17 frame and stucco, 10 concrete and 3 metal buildings. There was the usual average of fires in automobiles on the street, wagons, fences, freight cars and river craft, but none of importance.

Considerable progress in fire prevention work was made during the year. The License Department of the Common Council now looks to this Bureau for the approval of applications before licenses are issued for dance halls, moving

picture theatres, lodging houses and junk shops. This field is extensive and work therein productive of much good. The Building Department looks to the Bureau for approval of plans for private, public and commercial garages, moving picture theatres and factories where conditions, by reason of occupation, are apt to be hazardous. During the year 199 garage plans were approved, of which number 26 were plans for public garages, 5 for commercial garages, and 168 for private garages.

The storing of highly volatile oils has been safeguarded in underground tanks, of which no less than 480 were buried during the year, in strict accordance with the provisions of the Fire Prevention Code, under the supervision of one of the inspectors.

The receipts for permits from all sources for 1913 were $2,843.00, an increase of $362.00 over the previous year. There were 2,243 permits issued.

During the year a new schedule of insurance rates went into effect under the recently enacted State rating law. The City of Newark was placed in Class A, and the lowest rate in the State accorded to it as a municipality.

At the close of the year an ordinance became effective doubling the fire limit area, thus automatically prohibiting frame construction within the newly-established lines.

The spirit of co-operation among interested city departments has resulted in material progress toward general safety.

I desire, in conclusion, to express my sincere appreciation of the courtesy shown by the members of your honorable board.

Respectfully submitted,

C. ALBERT GASSER,

Inspector of Combustibles and Fire Risks.

ANNUAL REPORT

OF

The Department Chaplains

January 1, 1914.

To the Honorable Board of Fire Commissioners of the City of Newark, N. J.:

GENTLEMEN:—The Chaplains beg leave to submit the following as the report of work done by them since their appointment August 20, 1912:

Fires responded to	400
Station visitations	570
Fires attended	175
Sick visitations	360
First aid to the injured	11
Administration of discipline	23
Funerals attended	12
Service in Firemen's Memorials and Anniversaries	8

Your Chaplains sincerely regretted that the pressure of Parish work and duties have made it impossible for them to render a more perfect service. Many fires were unattended, and many sick could not be visited for these reasons.

We believe that the nearer the Chaplains of the department can keep to the personnel in sickness, affliction, work or play, the higher will be its standard of ethics and efficiency.

With the facilities of transportation now being arranged for the Chaplains, they believe they can render a larger and better service.

We desire to record our very great pleasure in the added comforts provided for the men in the splendid new stations, and express the hope that the older stations may in due time be provided with modern baths and lavatories for hygienic reasons. If every station could be equipped with a small gymnasium, game and reading room it would be of great value to the Department in keeping the men in fit condition for any emergency.

In conclusion, the Chaplains desire to express their thanks to the Commissioners, the Secretary of your Honorable Board, the Chief Engineer, and to all the officers and men of the department for the uniform courtesy shown them and the kindly and sympathetic co-operation in all their efforts for the welfare and general good of the department.

Sincerely yours,

JAMES CLAYTON HOWARD,
M. P. CORCORAN,
Chaplains.

NEWARK PAID FIRE DEPARTMENT PENSION FUND

Established by an Act of the Legislature, approved April 24, 1902

OFFICERS

Paul J. Moore.....Chairman
Robert D. Bender.....Treasurer
Charles S. Smith.....Secretary

TRUSTEES

Paul J. Moore
John O'Toole
George M. Sanders
Robert D. Bender
Walter W. O'Connor

To the Honorable Board of Fire Commissioners of the City of Newark, New Jersey:

GENTLEMEN:—In pursuance of the provisions of the law governing the conduct of the Newark Paid Fire Department Pension Fund, and by direction of the Board of Trustees of this organization, I respectfully submit the report herewith appended, this being in the nature of a financial statement for the year 1913:

RECEIPTS.

Balance from 1912		$ 30,297.90
City Bonds		40,000.00
Theatre Licenses		5,600.00
Nickledromes and Show Licenses		19,817.34
Foreign Insurance Tax		16,090.23
Pension Assessments		5,431.15
Interest, Bank Accounts		201.66
Interest, City Bonds		800.00
Interest, Bonds and Mortgages		3,677.50
Sale of old materials		336.94
Sale of old horses		400.00
Sale of old hose		390.60
Receipts from Bureau of Combustibles		2,843.00
Donations—		
Rev. James C. Howard	$ 7.00	
Robinson-Roders Co.	50.00	
American Transformer Co.	10.00	
Anonymous	.25	
Anonymous	25.00	
		92.25
Fines		203.01
Sale of fire line badges		63.00
Insurance premium		18.20
		$126,262.78

DISBURSEMENTS.

City Bonds	$ 30,000.00	
Bonds and Mortgages	22,800.00	
Pensions	44,755.32	
Salary	300.00	
Expense	42.00	
Clerical Assistance	200.00	
Printing	30.00	
Stationery	20.00	
Premium on Surety Bonds	13.75	
Premium on Fire Insurance, advanced	33.87	
Cash in Bank	28,067.84	
		$126,262.78

RECAPITULATION.

Receipts	$126,262.78
Disbursements	98,194.94
	$ 28,067.84

ASSETS.

Bonds and Mortgages	$ 93,050.00
City Bond	10,000.00
Personal Property	50.00
Insurance Premium Advanced	15.67
Cash in Bank	28,067.84
	$131,183.51

Fortieth Annual Report

OF THE

Board of Trustees

OF THE

Newark City Home

FOR THE YEAR ENDING DECEMBER 31, 1913

BOARD OF TRUSTEES

JACOB HAUSSLING, Mayor

Members Elected

LOUIS V. ARONSON
WM. BARKHORN
WM. HYLAND
*R. G. SCHAAF

Members of Common Council

ANGELO R. BIANCHI
GEORGE W. TAYLOR

*Resigned November 9th, 1913

OFFICERS OF THE BOARD OF TRUSTEES

Mayor Jacob Haussling, President
Superintendent Carl Heller, Secretary

Committees of the Board of Trustees

Finance

George W. Taylor — A. R. Bianchi
R. G. Schaaf

Schools and Supplies

Wm. A. Hyland — Wm. H. Barkhorn
Louis V. Aronson

Building and Grounds

Wm. Barkhorn — R. G. Schaaf
George W. Taylor

Indenture and Discharge

A. R. Bianchi — Louis V. Aronson
Wm. A. Hyland

Visitation

Louis V. Aronson — R. G. Schaaf
Wm. A. Hyland

FORTIETH ANNUAL REPORT

OF THE

Board of Trustees of the

Newark City Home

To the Honorable, the Common Council of Newark, N. J.:

GENTLEMEN:—The Trustees of the Newark City Home herewith present their fortieth annual report.

The following tables present the annual receipts and expenditures of the institution during the year 1913.

FINANCIAL STATEMENT.

Balance from the year 1912.....	.....
Tax Ordinance Appropriation.....	$52,500.00
Miscellaneous Receipts	3,241.97
Total	$55,741.97
Expenditures	55,741.80
January 1914 Balance to Common Council	$ .17

The failure of the Finance Committee of the Common Council to include in last year's budget an appropriation for the erection of new buildings at the Newark City Home was a great disappointment to the trustees. They make, therefore, a renewed request for an appropriation large enough to carry out the improvements necessary, and to keep up the high standard of the home's work in the future.

THE ERECTION OF A NEW ADMINISTRATION BUILDING.

Cottage No. 4, the present administration building, was built in 1902, for the purpose of providing additional living and sleeping quarters for the boys, who, at that time numbered 152. To-day as many as 180 boys are housed in quarters considered insufficient for 152 boys twelve years ago. Our improvements along these lines have not kept pace with the growth of our city, and we have to-day the same accommodations, which were at our disposal twelve years ago, although the population of the city of Newark has increased by more than 120,000 during this period.

The presence of a large foreign population in certain sections of our city, their poor homes, their ignorance and poverty in general, are contributing agencies for the increase of juvenile delinquency.

It is our sacred duty to offer these children every facility for their physical, mental and moral improvement.

The year 1913 closed with an enrollment of 181 children. There are sixty-nine boys in Cottage No. 1; fifty-six in Cottage No. 2; fifty-six in Cottage No. 3. Allowing forty-five boys to one family, an unusually large number, the present number of children should be divided among the four cottages—an arrangement which would be of great benefit to the boys.

GENERAL DINING ROOM FOR OFFICERS AND BOYS.

Since the destruction of the old home by fire, in the year 1900, and the erection of the new cottages, the meals for both officers and boys have been prepared in the general kitchen and carried in covered pans, or trays to the various cottages, where the food is served. This system of serving the meals is inconvenient, unsanitary and wasteful. On cold and stormy days the food is often cold before it reaches the cottages. There it needs warming up, a process which does not improve the quality of the food. Furthermore, the serving of the meals in the cottages involves a great waste of material.

NEW KITCHEN AND BAKERY.

These departments are under the same roof, only divided by a wooden partition about ten feet in height. The ventilation is poor, and during the hot months the heat is at times so intense that officers and boys are obliged to leave their departments for a short period in order to find relief in the open air. While both departments are kept spotlessly clean, their antiquated equipment makes the work laborious and their appearance uninviting and unattractive.

ENLARGE THE GYMNASIUM.

In the year 1906, a system of gymnastics was introduced in our school, and the old brush shop equipped with the necessary gymnastic apparatus.

Since then no further improvements have been made. As our population has increased considerably, the place which had been well adapted for its purpose, is now entirely inadequate. The old tailoring and shoemaking shops, which have been removed to their new quarters in the central school

building, could be added to the present gymnasium without entailing a large expense. A new floor and ceiling, and a new stairway would make these impovements complete.

IMPROVEMENTS.

The work of beautifying the Home grounds has been continued during the past year. The various cottages have been connected with cement sidewalks, and the site which was formerly occupied by the old cow-barn, has been changed into a lawn. Our school garden has been supplied with new hot-beds constructed of cement.

New steel lockers have been installed in the three cottages.

FINANCES.

The board of trustees always endeavored to manage the financial affairs of the home most carefully and conscientiously. The system of competitive bidding, introduced several years ago, has been continued during the past year. Although the expenses for food increased considerably during the past six years, our "per capita" expenses for maintenance, not including the salaries of the officers and expenditures for building purposes, did not increase, but were slightly reduced. This was possible without lowering the standard of living for our officers and boys.

Years ago the salaries of the officers were so low that numerous requests for salary increase had to be granted in the interest of efficiency and justice. Cheap help means, generally, poor help. The success of our work depends upon the efficiency and character of those who are entrusted with the responsible duties of instructing and educating the wayward. No amount of salary is too great for the successful and conscientious worker.

HEALTH.

We take special pride in the excellent health condition of our boys. There have been minor cases of illness and accidents, but none of contagious disease. The food prepared for our children has always been plentiful, nourishing, tasty and wholesome. Monotony in the bill of fare, the regular repetition of certain meals at certain days of the week, has been carefully avoided.

The importance of cleanliness as a promoter of healthy conditions has always been held in view.

The boys are provided with four suits of underwear—two for summer and two for winter. Bed linen is changed weekly.

Their living and sleeping quarters are always well ventilated. They sleep with windows open summer and winter.

We express our gratitude to the Board of Health of the City of Newark for the excellent care they gave to those of our boys, who were sent to the City Hospital for treatment.

CONCLUSION.

To increase the usefulness and efficiency of this institution, and to raise the standard of its work has been our principal aim. In order to retain this high standard in the future, we need your efficient co-operation.

Respectfully submitted,

THE BOARD OF TRUSTEES OF
THE NEWARK CITY HOME.
Mayor Jacob Haussling, *President;*
Louis V. Aronson,
William Barkhorn,
Angelo R. Bianchi,
Wm. A. Hyland,
R. G. Schaaf,
Geo. W. Taylor.

Carl G. Heller, *Secretary.*

To the Board of Trustees of the Newark City Home:

GENTLEMEN:—I have the honor to submit the Fortieth Annual Report of the Newark City Home.

POPULATION.

Number of children January 1st, 1913	184
Number of children received during 1913	77
a. New boys	59
b. Former boys returned	18
Number of boys paroled during 1913	80
Number of boys December 31st, 1913	181
Average attendance for 1913	178
Average age	12 years 10 months 6 days
Average number of months in our school	13 months 26 days

STATISTICAL TABLE.

COMPARING THE POPULATION OF THE CITY OF NEWARK WITH THAT OF NEWARK CITY HOME.

1874	(first year)	120000	45	.375
1875		123000	62	.50
1876		123000	89	.72
1877		123500	112	1.00
1878		124000	143	1.15
1879		125000	134	1.07
1880		126000	146	1.16
1881		136000 (U. S. C.)	154	1.13
1885		153000	185	1.20
1890		181500	257	1.42
1895		215800	266	1.24
1898		240000	274	1.14

1900	(year of fire)	246000	(U. S. C.) 160	.65
1905		28300	138	.41
1906		290000	145	.50
1907		300000	158	.53
1908		310000	154	.50
1909		330000	162	.50
1910		348000	162	.46
1911		360000	175	.49
1912		375000	184	.49
1913		385000	181	.48

STATISTICAL TABLES.

The following statistical tables will furnish valuable information as to the causes that have been responsible for the physical, mental and moral deficiencies of our chidren.

A. PARENTS—

I. Race:

1. White 168
2. Colored 13

II. Nativity—Father:

1. American born 70
2. Foreign born 111
   a. Great Britain 3
   b. Ireland 21
   c. Germany 13
   d. Austria 6
   e. Hungary 4
   f. Russia 15
   g. Italy 48
   h. Greece 1

Nativity—Mother:

1.	American born	64
2.	Foreign born	117
a.	Great Britain	5
b.	Ireland	23
c.	Germany	15
d.	Austria	7
e.	Hungary	5
f.	Russia	14
g.	Italy	47
h.	Greece	1

III. Religion:

1.	Catholic	119
2.	Protestant	52
3.	Jewish	10

IV. Conjugal Condition of Parents:

1.	Both parents living	103
2.	Both parents dead	25
3.	Father dead	28
4.	Mother dead	25
5.	Parents separated	24
6.	Children in care of father	7
7.	Children in care of mother	8
8.	Foster parents	9
9.	Stepfather	6
10.	Stepmother	6

V. Occupation of Mother:

1.	At home, not gainfully employed	60
2.	At home, known to be gainfully employed	12
3.	Employed by the day at washing and ironing	25
4.	Otherwise employed gainfully away from home	34

Occupation of Father:

1. Unskilled labor 32
2. Skilled labor 71
3. Miscellaneous 25

VI. Economic Conditions:

1. Owning property 19
2. Others on comfort level 28
3. Poor 69
4. Very poor 65

VII. Home Conditions:

1. Good 10
2. Fair 25
3. Poor 65
4. Very poor 81

VIII. Health:

Members of family afflicted with:

1. Consumption 13
2. Rheumatism 14
3. Alcoholism 47
4. Insanity 4
5. Epilepsy 2

B. CHILDREN—

I. Nativity:

1. American born 154
2. Foreign born 27
   a. Austria 3
   b. Russia 5
   c. Italy 16
   d. Germany 2
   e. Greece 1

II. Education:

1. Schools:

a.	Public Schools	147
aa.	Regular classes	122
bb.	Ungraded classes	25
b.	Parochial schools	32
c.	No school	2

2. Grades:

a.	Second grade	40
b.	Third grade	52
c.	Fourth grade	25
d.	Fifth grade	20
e.	Sixth grade	4
f.	Seventh grade	2
g.	Eighth grade	1
h.	Illiterates	37

III. Occupation:

1.	School	156
2.	Factory	13
3.	Miscellaneous	12

IV. Health:

1. General Condition:

a.	Good	70
b.	Fair	68
c.	Poor	43

2. Physical defects:

a.	Vision	30
b.	Hearing	13
c.	Speech	5
d.	Otherwise defective	17
e.	Mentally defective	23

V. Habits:

1. Using alcoholic drinks..... 88
2. Smoking 104
3. Visiting cheap shows..... 143

VI. Age:

(Oldest, 19 yrs, 4 mos., 16 days.)
(Youngest, 8 yrs., 2 mos., 4 days.)

1. Below fourteen years..... 95
2. Above fourteen years..... 86
3. Average age.....13 years, 9 months

VII. Cause of Commitment:

1. Truancy 60
2. Larceny 63
3. Vagrancy 34
4. Disorderly conduct 6
5. Assault 1
6. Breaking and entering..... 5
7. Homeless 12

SCHOOL ORGANIZATION.

The school is under the immediate supervision of the Superintendent.

1. UNGRADED CLASS:

Number of pupils, 15; school hours, 2 to 5 P. M.; teacher, Miss Emma Valtz.

The children of this class were, at the time of their commitment, unable to read, write and cipher. As soon as they are ready to take up grade-work they are promoted. They receive special attention. Text Books: Cyr's First Reader, Baldwin's First Reader, Graded Literature No. 1, Nichols' Arithmetic. Easy Steps for Little Feet.

II. FIRST ELEMENTARY CLASS.

Number of pupils, 33; school hours, 9 to 12 A. M., 2 to 3:30 P. M.; teacher, Miss Emma Valtz.

The hours include the time devoted to manual training.

Text books: Cyr's Second Reader, Baldwin's Second Reader, Graded Literature Reader No. 2, Brook's Reader No. 2, Nichols' Arithmetic Book No. 2. The World and Its People, Book 1. Language Reader, No. 3. Easy Stories.

III. SECOND ELEMENTARY CLASS:

Number of pupils, 32; school hours, 9 to 12 A. M.; teacher, Miss Sue Studenroth.

Text books: Cyr's Third Reader, Baldwin's Third Reader, Franklin's Advanced Third Reader, Anderson's Fairy Tales, Nichols' Arithmetic, Eggleston's First Book in American History and Maury's Elementary Geography. Stories from American History. Stories.

IV. FIRST INTERMEDIATE CLASS:

Number of pupils, 35; school hours, 2 to 5 P. M.; teacher, Miss Sue Studenroth.

Text books: Cyr's Fourth Reader, Baldwin's Fourth Reader, Franklin's New Fourth Reader, Graded Literature Book No. 4, Reading in Nature's Book, Swinton's Aesop's Fables, Hiawatha, Longfellow, First Book in American History, Anderson's United States History, Natural Elementary Geography, Nichols' Arithmetic Book No. 4, Walsh's Arithmetic, Graded Lessons in English by Reed and Kellogg, Brook's Reader No. 4, Stories from American History.

V. SECOND INTERMEDIATE CLASS:

Number of pupils, 30; school hours, 9 to 12 A. M.; teacher, Miss Adeline Zerga.

VI. GRAMMAR CLASS:

Number of pupils, 28; school hours, 2 to 5 P. M.; teacher, Miss Adeline Zerga.

Text books: Cyr's Fifth and Sixth Readers, Baldwin's Fifth and Sixth Readers, Graded Literature Books Nos. 5 and 6, Robinson Crusoe, by Defoe; Courtship of Miles Standish; Evangeline, by Longfellow; Greek Heroes, by Kingsley; Reading in Nature's Book, Anderson's United States History, The Young American, by Judson; Laws of Health, Maury's Grammar School Geography, Nichols' Arithmetic Books, Nos. 5 and 6; Milne's Standard Arithmetic, Brook's Reader, Nos. 5, 6, 7 and 8; Eggleston's American History, Carpenter's North America, South America, Asia and Europe, Heroes of History, by Whitcomb.

MONTHLY REPORTS.

Monthly reports are prepared by the teachers, instructors and family officers. After being forwarded to and signed by the superintendent they are filed.

These pedagogical records give valuable information about the boys' physical, mental and moral progress.

PEDAGOGICAL RECORD

NEWARK CITY HOME,

VERONA, N. J.

.....191

Name.....

	September	October	November	December	January	February	March	April	May	June	July	August
Sense Training												
Taste												
Smell												
Touch												
Sight												
Hearing												
Physical Training												
Manual Training												
Industrial Training												
Drawing												
Writing												
Language (oral)												
Language (written)												
Reading												
Arithmetic												
Nature Study												
Geography												
History												
Music												
Personal Habits												
Self Control												
Effort												
Power of Attention												
Power of Memory												
Power of Judgment												
General Health												
Attendance												

....., Teacher.

Marks—5 Excellent, 4 Good, 3 Fair, 2 Poor, 1 Very Poor.

MANUAL TRAINING.

(Teacher, Mr. James Brown.)

Classes:

First Elementary Class, 17 pupils, hours from 9 to 10:30 A. M.

Advanced class, 20 pupils, hours from 10:30 to 12 A. M.

Second Elementary Class, 22 pupils, hours from 2 to 3:30 P. M.

Intermediate Class, 24 pupils, hours from 3:30 to 5 P. M.

Saturday Classes:

First Elementary Class, hours from 7:30 to 9 A. M.

Intermediate Class, hours from 9 to 10 A. M.

PHYSICAL TRAINING.

(Teacher, Mr. Morris Sachs.)

Cottage I, Division A:
Monday and Thursday, from 6:30 to 8:00 P. M.

Cottage I, Division B:
Tuesday and Friday, from 6:30 to 8:00 P. M.

Cottage II, Division A:
Monday and Thursday, from 2:00 to 3:30 P. M.

Cottage II, Division B:
Wednesday and Saturday, 10:30 to 12:00 A. M.

Cottage III, Division A:
Tuesday and Friday, from 3:30 to 5:00 P. M.

Cottage III, Division B:
Monday and Thursday, from 10:30 to 12:00 A. M.

Forty-eight boys took part in the exercises arranged on occasion of the session of the American Physical Education Association held at the Armory of the First Regiment, Newark, N. J.

The following excerpt from the Newark Evening News speaks for itself:

"The evening exercises brought out another large attendance, about 2,000 persons, in addition to the visiting delegates being present. The program was nicely balanced and all the numbers evoked applause. But the laurels were fairly earned by the boys of the Newark City Home.

"Superintendent Carl Heller contributed a class of 48 boys trained to the last degree in a wand drill, which was varied with the evolutions of an intricate but artistic march.

"The boys of the institutional school looked bright, clean and happy. They were in two groups, the larger boys being dressed in full length khaki trousers and black shirts, while the smaller boys were in white set off with red trimming. The drill was accomplished without a break and without audible command by Instructor Morris Sachs.

"The City Home Band furnished the accompanying music and the whole display called forth admiring comment from the audience as well as a demonstration of applause that shook the armory rafters."

CLASSES IN AGRICULTURE.

(From Annual Report, 1912.)

The high cost of living has been an impetus to a movement in our country intended to create among the younger generation a new interest for farming and agriculture. The high wages paid to the laboring class in general did not offset the increased cost of living, and the past year, although one of unusual prosperity, has not improved the economic and social standard of the working class.

To our boys the study of agriculture is of far greater value than to the average city boy. They find in the cultivation of the soil an occupation that benefits them physically, mentally and morally.

But to make this work interesting and instructive, the practical training must be based on scientific principals. To accomplish this, the appointment of a capable teacher of agriculture is necessary. The agricultural training which our boys receive is of little value to their future, as it lacks system and method. The course in agriculture should comprise the following topics:

Modern farming tools and machinery and their use.

Commercial fertilizer. Cultivation and fertilization of the soil.

Planting, seeding, weeding and cultivation of our staple crops.

War against fungi and insects—spraying, etc.

Harvesting, preservation of the crops.

Care of hot beds and green houses.

Pruning, spraying of trees.

Planting and care of trees and grapes.

Live Stock: Feeding, cleaning, breeding. Importance of fresh air and sunshine. Scientific method in handling milk.

With the practical work on the farm should go hand in hand the theoretical work in the class-room. Both branches should be closely correlated. Such training would fit the boys for higher positions in life and would reward them financially and socially.

NEW SCHOOL LAW.

The new school law adopted by the Legislature of the State of New Jersey in the year 1913 contains the following provisions:

1. Every parent, guardian or other person having charge and control of a child between the ages of seven and sixteen years shall cause such child regularly to attend a day school in which at least reading, writing, spelling, English grammar, arithmetic and geography are taught in the

English language by a competent teacher, or to receive equivalent instruction elsewhere than at school, unless such child is above the age of fourteen years, has been granted an "age and schooling certificate" and is regularly and lawfully employed in some useful occupation or service. Such regular attendance shall be during all the days and hours that the public schools are in session in said school district, unless it shall be shown to the satisfaction of the board of education of said school district that the mental or bodily condition of the child is such as to prevent his or her attendance at school.

"Age and schooling certificates" shall be granted by the superintendent of schools or the supervising principal of the district on the application in person of the parent, guardian or custodian of the child for whom such certificate is desired. In a district in which there is no superintendent or supervising principal such certificates shall be issued by the principal teacher, or if there be no principal teacher, by the person designated for that purpose by the board of education.

2. Every "age and schooling certificate" shall state the color, name, sex, date and place of birth, residence, color of hair and eyes, height, weight, and any distinguishing facial marks of the child, and shall contain a statement that the proofs of age, education and physical condition required by this article have been filed with the officer issuing the certificate, and that the child named in the certificate has personally appeared before such officer and been examined.

No "age and schooling certificate" shall be issued until there have been filed with the officer authorized to issue the same satisfactory proof that the child for whom such certificate is requested has regularly attended a public school, or has received instruction equivalent to that provided in the public schools, for a period of not less than one hundred

and thirty days during the twelve months next preceding the date of the application for such certificate, is able to read intelligently and write legibly simple sentences in the English language, has completed a course of study equivalent to five yearly grades in reading, writing, spelling, English language and geography, is familiar with the fundamental operations of arithmetic, up to and including simple fractions, and that such child is able to perform the work in which he or she expects to be employed.

Our statistical table shows that only a few boys at the time of their commitment to our institution had completed the fifth grade, the majority were either illiterates or could do the work of the lower grades only. It is therefore our foremost duty to advance their academic studies by every means possible.

Their mental growth does not always keep pace with their physical growth, their mental age being generally far below their physical age.

The questions have been asked: Will these boys profit by a prolonged stay in the class-room? Will an occupation, that enables our boys to support themselves in the future, not be of far greater benefit to them than scholastic studies for which many of them have neither inclination nor ability? However, there never has been a law without a sharp edge, and without provisions that cause hardship in some quarters. The youth at large will profit by this law and its judicious enforcement should be insisted upon, as it protects the youth and promotes the physical, mental and moral welfare of coming generations.

SPECIAL CLASS FOR BACKWARD BOYS.

There has always been in our care a number of mentally deficient boys.

Physical defects, ill health, bodily injuries, heredity, poverty, improper environment and other contributing causes

have produced a type of children classified as mental delinquents—children with mental disorders, but capable of being brought to normal condition under proper treatment.

Irritability and outbreak of temper, laziness, destructiveness, emotional temperament, untruthfulness, lack of will power, immoral and vicious habits are true characteristics of this class of children. Their treatment requires training in special classes by the most efficient teachers. The appointment of such teachers for our school is of the greatest importance, and financial considerations should not be in the way of efficiency.

In order to discontinue the commitment of mentally defective children the establishment of a psycho-pathological clinic in connection with the Juvenile Court is necessary. The papers forwarded to us, when the children are committed, are of little or no value. With the exception of the name, age, name of father and mother and their nationality, the papers give little or no information about the physical condition of the child, his health, environment, his mental status, his education, etc., nor data about the parents, their health, habits, occupation, character, home-life, social and economic standing—data which make a proper diagnosis of each individual case possible. A carefully outlined report of a medico-pedagogic character should be submitted to the courts by an expert in charge of said clinic, before trial—a method necessary in the interest of humanity and justice. A copy of this report to be forwarded to the head of the respective institution to which the person is sent for treatment. The psycho-pathological clinic would become the clearing house for all delinquent persons.

Without careful segregation and classification, effective treatment in institutions is impossible.

As the Board of Freeholders have already taken the initial steps for the erection of a new house of detention, the time

seems to be most opportune for an agitation in this direction, which no doubt will result in the introduction of the most approved methods in the organization and equipment of this institution.

INCREASE OF THE TEACHERS' SALARIES.

A vacancy caused by the resignation of a teacher could not be filled properly on account of the lack of applicants. Our teachers being under civil service, applicants are obliged to pass a civil service examination in order to secure a position at the Newark City Home, which pays a salary of $480 per year and maintenance. We need the services of the best teachers, and no doubt we could get them if we offer them an adequate remuneration for their services.

The success of our work depends, to a great extent, on the quality of training our boys receive in the class-room.

In order to make the position of teacher more attractive I suggest the following:

1. Arrange for a maximum and minimum salary.

Every teacher should receive after two years of successful teaching the maximum salary of her position. A teacher who is not considered worthy of a salary increase after the first year should be dismissed.

2. Make the salary for teachers having full maintenance at the institution, $500 for the first year, $550 for the second year, and $600 as the maximum salary.

For teachers who provide for their own maintenance $700 for the first year, $750 for the second year, and $800 as the maximum salary.

3. Arrange with the Board of Education of the City of Newark for leave of absence of teachers who want to make a special stduy of the educational problems of our school.

These teachers be given credit by the Board of Education for the time they are teaching at our school, every year's service in our school to be considered equivalent to the services in the Newark schools for the same period.

4. In recognition of these privileges, invite the Superintendent of the Schools of Newark to make a semi-annual inspection in our school and forward an official report to the Trustees on the efficiency and work of our school and its teachers.

THE SCHOOL-HOME.

Poor environment, poverty and ignorance of the parents are a great hindrance to punctuality in attendance and efficiency in the class-room.

The child that comes to school with a hungry stomach, without breakfast, cannot be expected to do the same work as the more fortunate pupils. Lack of physical strength will retard the mental activities of the child. The latter loses interest in his work and is discouraged. He begins to dislike his teacher, his studies, the bright and cheerful atmosphere of the class-room, and becomes a truant.

For the children of the poor, the school should not only be a place of learning, but also a home where they are provided with food and clothing. It would reduce truancy and juvenile delinquency.

The boy with a hungry stomach and without proper clothing does not believe in the commandment "Thou shalt not steal."

BOARDING HOME FOR BOYS.

The citizens of Newark are especially proud of two institutions, dedicated to the welfare of her young men and women, the Y. M. C. A. and Y. W. C. A.

The construction and equipment of these buildings is most elaborate and commodious, the interior breathes an atmosphere of refinement and comfort. The organization and administration of these institutions exclude, however, a class of young men and women for whose welfare and comfort heretofore no provisions have been made.

The homeless boys and girls, and such with very poor homes, have no place where they can get cheap, wholesome food and a clean bed amidst a healthy surrounding. They are compelled to select homes that will offer them, perhaps, food and shelter, but nothing for their mental and moral uplift. A number of boys had to prolong their stay in the institution because they were not able to secure a proper boarding house with their small earnings.

I am convinced an earnest appeal to the charitably inclined men and women of Newark for a boarding house for boys will not be made in vain, but will find a responsive echo in the hearts of our fellow citizens.

OUR MATERIAL AND RESULTS.

The boys who are under our care to-day represent a far lower type of children than those committed to the City Home eight or ten years ago.

After the home, the regular school, the ungraded school, and the probation office have exhausted all their resources they are turned over to us.

The lack of a state institution for defective children made it necessary to commit to the City Home many children who, on account of physical defects and psychic disturbances, have become juvenile delinquents.

These children form a group whose proper treatment must differ from that of the clear incorrigible type, whose deficiencies are the result of poor environment, vicious habits, general moral pervertness, or superfluous energy.

Proper occupation, good food and clothing, cleanliness, regular habits, etc., will soon produce a wholesome change in the physical, mental and moral make-up of the latter type that their return to their homes may be accomplished in a comparatively short period.

The treatment of the defective class, however, is far more difficult, and necessitates close co-operation between the teacher and physician.

About 75 per cent. of the boys paroled during the past three years are doing well. May they continue in their efforts to become good citizens and worthy members of the community.

TO CHANGE THE LOCATION OF THE PLAY-GROUNDS.

At the time the cottages were built Grove avenue was the main thoroughfare in the Borough of Verona. The buildings were, therefore, placed with the front toward this avenue.

When a few years later the new County Hospital for the Insane was erected at Overbrook, N. J., the Board of Freeholders of Essex County built Fairview avenue, which was before only a rough country road.

Next to Bloomfield avenue this road is now the most important avenue. It crosses the City Home property about two hundred feet west of the cottages. The boys' playgrounds being located between the cottages and the avenue.

Our cottages, facing east, are exposing their unattractive rear toward this main road. The nearness of the boys' play-grounds to the road is a decided detriment, as the boys are often molested and supplied with tobacco by pedestrians of the road.

In order to make this part of the Home's premises more attractive I respectfully suggest to your Honorable Board the following improvements:

1. Change the location of the play-grounds.

This can be done by enlarging the present campus, a work to be performed by our boys. The advantages of this change are numerous:

(a) The ground east of the buildings consists mainly of gravel, which makes a dry play-ground.

(b) There are many large shade trees, which offer to the boys protection during the hot summer months.

(c) The boys are no longer molested by pedestrians of the road.

(d) The play-grounds will be less dusty, as clouds of dust frequently sweep over the present play-ground.

2. Change the present play-ground in the rear of the buildings into a park.

The grounds could be plowed, top-dressed, a driveway and artificial stone walks constructed, trees and shrubbery planted, which would make the appearance of the Home more attractive and more home-like. The trees needed for this purpose to be taken from our own nursery.

The soil necessary for top-dressing could be taken from the low spot north of Cottage 4, which is to be turned into a skating and ice pond. The water supply to be secured from the overflow of a mountain spring.

The cost of these improvements would be insignificant, as the work would not require any outside labor and but little material.

CONCLUSION.

Concluding my report I am taking the opportunity in expressing my gratitude to Rev. Father Masterson, Mt. St. Dominic's Academy, Caldwell, N. J.; Rev. Pierce A. Chamberlain, First Presbyterian Church, Verona, N. J.; Mr. John Harris, Verona, N. J., for the interest they have taken in the spiritual welfare of our boys.

To you, gentlemen, my most heartfelt thanks for the kind support and the friendly appreciation of my work.

Respectfully submitted,

CARL G. HELLER, *Superintendent.*

Miscellaneous Receipts, 1913

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Appropriation	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	$52,500.00
Board of Inmates	$ 33.00	$ 28.00	$ 34.00	$ 30.00	$ 27.00	$ 32.00	$ 40.00	$ 68.00	$ 21.00	$ 47.00	$ 24.00	$ 46.00	430.00
Broken Material	1.90	.....	.40	.....	.20	.05	.....	.....	1.16	.....	1.00	.20	4.91
Printing Department	54.46	34.65	38.69	124.50	33.16	106.41	90.26	83.11	81.26	42.18	32.14	76.96	797.78
Sale of—													
Barrels and Bags	6.60	1.25	.....	6.24	3.26	.....	6.16	4.25	3.19	2.47	2.25	3.08	38.75
Cattle	.....	.....	.....	12.00	.....	.....	.....	.....	.....	.....	5.00	10.00	27.00
Fat and Hides	.....	4.02	6.89	4.51	4.97	3.40	7.86	4.25	2.75	4.10	3.60	11.50	57.85
Old Metals	.....	.....	.....	.....	.....	.....	.....	.....	11.75	.....	.....	.....	11.75
Peaches	.....	.....	.....	.....	.....	.....	.....	.....	27.60	2.40	3.00	3.60	36.60
Rags	.....	.....	.....	2.40	.....	.....	.....	.....	1.15	.....	.....	.60	4.15
Stamps	.....	.....	.....	.60	.....	.25	.25	.....	.....	.42	.....	.46	1.98
Sundries	.....	7.08	.....	6.16	.....	.....	.25	.05	.....	.....	1.00	.40	14.94
Shoe Repairs	.90	.85	.40	.85	7.05	.35	.....	6.45	1.05	.60	12.25	.95	31.70
Supplies to Sanitarium—													
Bread, etc.	69.82	74.64	64.24	59.62	60.67	70.74	65.73	69.03	71.74	53.46	49.64	48.28	757.61
Water	272.18	.....	.....	353.81	.....	.....	.....	184.07	.....	.....	.....	205.02	1,015.08
Telephone	.80	.10	.10	.50	2.32	.16	.....	3.07	1.40	.10	3.22	.10	11.87
Total	$439.66	$150.59	$144.72	$601.19	$138.63	$213.36	$210.51	$422.28	$224.05	$152.73	$137.10	$407.15	$55,741.97

Disbursements, 1913

DEPARTMENTS AND ITEMS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Betterments	$ 64.13		$ 34.00	$ 33.38			$ 15.97		$ 3.45	$ 112.23			$ 263.16
Books and Stationery	66.96	$ 77.70	31.10	25.92	$ 13.95	$ 18.54	$ 9.90	$ 5.52	$ 38.19	108.74		$ 9.57	406.09
Buildings		27.78	72.80	23.50	40.65	76.00	115.38	45.88	607.51	51.13	$ 24.45	69.57	1,154.65
Clothing, etc.		837.04	459.73	141.57	24.11		24.02		156.81	27.12	171.05	83.15	1,924.60
Dentistry and Op.	18.50	5.50	14.00	10.50	9.50	12.50	12.00	7.50	16.75	6.00	3.00	2.50	118.25
Medicine	.30	.35	1.15	14.38	4.00	.45	3.50	19.41	1.35	1.00	3.00	4.45	53.34
Miscellaneous Expense	128.18	64.17	125.40	132.37	74.78	104.22	85.80	84.92	108.41	60.48	67.77	69.85	1,106.35
Engineer's Department	97.59	27.05	28.54		8.01	20.21	23.43	271.12	79.51	113.56	18.63	22.57	710.22
Furniture and Crockery			613.91	26.75	143.02	107.82	15.43	28.79	71.96	52.86	28.50	64.21	1,153.25
Farm		5.59	44.19	175.75	90.95	63.74	97.20		90.80	1.15	.84		570.21
Feed and Hay	231.07	185.58	127.20	129.20	43.10	54.10	218.24		239.17	26.20	84.46	269.26	1,607.58
Food	799.36	1,895.42	817.26	781.35	760.44	891.50	880.92	867.90	1,325.38	875.86	838.80	1,130.32	11,864.71
Insurance		750.00							775.00				1,525.00
Light	135.47	114.89	87.45	96.49	67.05	70.47	47.59	56.98	68.45	92.19	101.43	102.24	1,040.70
Fuel	841.63	360.19	275.46	419.43			322.66		521.91	502.30	504.91		3,748.29
Water			1,142.33										1,142.33
Ice	15.23	8.04	12.71	22.20	42.45	65.25	84.24	81.30	65.55	49.35	29.85	25.20	501.37
Laundry	70.64	27.83	29.62	54.79	49.11	59.67	30.00	11.69	62.08	30.29	26.74		452.46
Manual Training	11.31	99.54	33.76		6.48	1.15				137.68	10.64	.69	301.25
Printing	26.00	28.12	85.90	23.12	36.70	82.79	37.23	8.00	95.38	41.84	49.86	63.24	578.18
Salaries	1,787.40	1,814.90	1,851.94	1,900.59	1,898.93	1,832.12	2,090.36	1,912.82	1,919.54	1,909.04	1,944.29	1,944.54	22,801.47
Shoemaking Department	35.52	193.23	96.30		84.40	34.11	75.39	40.64	43.20	83.01	1.25	28.49	715.54
Shoes and Boots	22.13	122.69	307.75	455.87	12.25	66.75				376.87	12.92	20.18	1,397.41
Stable	5.50		31.65	8.60	26.50	1.00	8.76	14.75	5.75		8.40	8.95	119.86
Tools and Implements	7.50	48.24	17.70	60.21	21.85	8.23	23.48	62.79	102.65	63.70	37.52	31.66	485.53
Balance to Common Council												.17	.17
Total	$4,364.42	$6,693.85	$6,341.85	$4,535.97	$3,453.23	$3,570.62	$4,221.50	$3,520.01	$6,398.80	$4,722.60	$3,968.31	$3,950.81	$55,741.97

Respectfully submitted,

CHARLES A. SCHUMACHER,

Accountant and Steward

Tenth Annual Report

OF THE

Shade Tree Commission

NEWARK, NEW JERSEY

1913

AN EXPLANATORY WORD

THE Pictures shown herein are presented as illustrating, among other things, the high regard in which street trees are held by certain municipalities of Europe; also as indicating in a measure the pains there taken, and the sane methods pursued, in the care, protection, preservation and safeguarding of street trees. The time, the thought, the money, the solicitous efforts of the Municipality are bestowed without stint; and the citizens co-operate. Be ye moved to emulation; also cheer up, for Newark is in line. The practices herein pictured already prevail in kind if not in degree in this fine old town of ours; and we shall improve. :: :: NEWARK KNOWS HOW!

TENTH ANNUAL REPORT

OF THE

Shade Tree Commission

To the Honorable, the Mayor and Common Council of the City of Newark, New Jersey:

GENTLEMEN:—The Shade Tree Commissioners, herewith submitting their report for the year 1913, respectfully invite attention to the fact that it is the Tenth Annual Report of this Department. Newark's Shade Tree Commission has completed its first decade of service.

A brief resumé of the ten years may not be amiss. In 1893 was enacted the first New Jersey Shade Tree Commission Statute. And it seems to have been the first such

POTSDAM—Lindens—Planted by Frederick the Great

statute enacted anywhere throughout the Union. It authorized any municipality in the State, that so willed, to appoint a Commission of three resident freeholders who were to have "exclusive and absolute control and power to plant, set out, maintain, protect and care for shade trees in any of the public highways of the municipality." In 1904, Newark took advantage of this act and on January 20th of that year appointed as its first Shade Tree Commissioners J. Henry Bacheller, James A. Berry and Charles G. Titsworth. Other Commissioners have been James S. Higbie, John H. Ely, Bernard M. Shanley, Jr., Frank E. Van Ness. The present Board is made up of Messrs. George B. Astley, John J. Mooney and Frank L. Driver, the first named being President.

We have to record the decease of Commissioner Van Ness during the year just closed. He had taken office January 1, 1913. Late in February a sickness came upon him, which proved fatal. He passed from earth Saturday,

LONDON—A Vista of London Planes—A goodly number—Can you count them ?

March 1. Brief as his term of service was, his cordial interest in the affairs of the Commission and his earnest participation in its work, gave promise of large usefulness.

It is to be noted that under the original Statute the jurisdiction of the Commission had to do only with the "shade trees in the public highways" of the city. But in 1905 a supplementary law transferred to its control the care and improvement of "the public parks belonging to the municipality or any department in the government thereof." Also in 1905, and again in 1906, the Commission was empowered "to pass, enact, alter, amend and repeal ordinances for the protection, regulation and control" of such parks and "of all shade trees" situate "in the public highways" of the city. In 1910 a further act was passed which, however, in no wise affects the powers and duties of the Commission as above outlined.

The history of the Department's activities and achievements yields "comfort and good cheer" to the lover of trees and disciple of the City Beautiful. God made the country

BERLIN-CHARLOTTENBURG—Festoons of Roses: Hung from Tree to Tree

and man made the town, so runs the ancient saying. But a bit of God's country has been set up in Man's town—and Newark is the better for it. Twenty-five thousand four hundred and forty young trees have been set out, 150 miles of the city's streets being now adorned with these new plantings. The city's parks have been brought under specialized care, with the result that these parks have put on a new beauty. Witness for example the centrally located parks, Washington, Military, Clinton, Lincoln, which are a standing exhibit to passing thousands every day of what can be wrought for civic beauty. Thousands of the older street trees have been saved which but for this Department would have perished through insect attack, human carelessness or malice, the bitings of horses, etc., etc. To produce these results has called for perpetual vigilance and constant activity —as also for scientific, technical treatment. And consider the importance of this last. The treatment of trees, as also of parks, is an expert profession. Expert planting, pruning, mulching, spraying, etc., are absolutely necessary not only to the welfare and beauty, but to the very life of the

MILAN—Locust Trees—Two lines of them.

tree. So, too, as to parks. Now it ought to be manifest on a moment's reflection, that such scientific treatment and such vigilance and activity, are practicable only to a municipal body, clothed with authority in the premises, endowed with the necessary equipment, and put into the field with just this one thing to do—and which then sticks to the doing of this "just one thing" and nothing else.

In 1907 a plot of ten acres at Ivy Hill was put at our disposal by the Board of Street and Water Commissioners and was laid out and stocked by us for nursery purposes. From the beginning this City Nursery has been a most helpful factor in the muncipality's shade tree work. For one thing we are thereby enabled to buy trees in large quantities, having a nursery to store them in; and by reason of such large purchases we get our trees at bottom wholesale rates. While some of the trees thus put in stock are large enough to plant, yet by placing them in the nursery and there transplanting, cultivating and pruning them a vigorous growth of fibrous roots is induced, and this makes the trees more

LEIPZIG—Street not yet built on—Paved and Planted nevertheless

adaptable to successful transplanting later on in the street. Of course, as these trees thus increase in size and quality, under the roomy conditions and the nursery care, they increase also in value and so yield interest on the investment. Then there is insured a smaller percentage of loss on new plantings. Also we are enabled to set out trees of larger diameter than ordinary. Then trees whose vitality is not of the best, and such as are bent and crooked, can be placed in the nursery and there induced to grow straight and gain new vigor. There also we are enabled to obtain our good, healthy, clean sods, and to grow shrubs. Altogether the establishment of a City Nursery has resulted in great advantage to the cause of shade trees and parks.

Your attention is invited, also, to the educational work of the Commission. As is obvious, the very work of planting and cultivating the trees in the streets and beautifying the parks has been in itself a direct educative influence. But over and above that, the Department has sought by all available means to awaken, encourage and stimulate an enlight-

LEIPZIG—Man can make a sidewalk. It takes Omnipotence to make a Tree; *ergo*, Save the Tree

ened interest on the part of all citizens in trees. By spoken, written and printed word, we have taken pains to impress our citizens with a "realizing sense" of the several values of trees, their beauty not only, but also (and this needs to be emphasized again and again) their health-giving properties, their real estate value, their effect of endearing the city to its people and their consequent fostering of civic patriotism.

It may be added that by the same media of speech, pen and print this Department has been instrumental in imparting valuable technical instruction as to the setting out, planting, care and maintenance of trees, and the care and beautifying of lawns and parks, etc. And this has borne visible fruit in the more scientific care bestowed by private individuals on their trees, lawns, shrubbery and other plantings.

Another educational feature of the decade has been our participation in the schools' annual observance of Arbor Day. Thus, to illustrate from one year's observance, we pre-

LEIPZIG—Street line deflected—Tree Saved

pared and (the Board of Education co-operating) published a leaflet entitled "The Tree Calendar," consisting of outline sketches of the changing activities of the trees from month to month throughout the year. Also this leaflet set forth ways and means by which the children could help their trees in these activities from season to season. As frontispiece, there was a picture showing a Tulip tree, one of the most stately trees in this vicinage, with a circumference of ten feet eight inches at three feet above the base, and ninety feet high. On the closing cover page was an article entitled "Our Heritage," telling of the riches and variety of plant life to be found here in Essex County, both in public and private domains, as thus: "Within the limits of Newark we have thoroughfares, bordered with all that is rich in plant life gathered from every quarter of the globe. In these and in our environs, the Oranges and Montclair, may be seen rare landscape effects; choicest plants arranged in exquisite setting, unfolding their seasonal succession of varying blooms. Within a few miles from Newark's center the student of botany may study the life histories of all the

BASEL—In Medias Res—Narrow Street—Linden Saved

trees, shrubs and flowers capable of thriving in the temperate zone. There is then no reason why any Essex County boy or girl, man or woman, may not view the very best in the plant kingdom; one thing only can hinder, and that is to walk through our streets and parks with shut eyes—or shut heart."

From year to year instructive leaflets of this kind were distributed to the youth of the grammar grades in all schools, public, private and parochial. From year to year also we set out trees on school building frontages in co-operation with the Arbor Day school exercises. Thus the celebration of this important day in the school calendar was associated with new plantings, the result of which the children would note from season to season of their school life. The highly important relation of this Arbor Day work and of the Shade Tree Protectors' work (see following) to the Shade Tree cause, in the training of the coming generation to love, protect and care for trees, should be noted.

LONDON—Saving Street Trees—How they do it in London Town

Still another feature of our educational work was the formation of leagues of Shade Tree protectors among the school children. The objects of this organization were set forth in its "Constitution and By-laws" as follows: "To inspire its members with civic patriotism, to inculcate in them a zeal for their city's beauty, to enlist them as volunteer aids to the Shade Tree Commission in its care of the street trees and parks, to propagate knowledge concerning laws and ordinances enacted and ordained to protect trees, to promote the setting out of new trees and to urge young and old to maintain, protect and cherish existing trees."

This organization was first instituted in 1910; and the fact that by 1911 twenty-four leagues had been formed with a total membership of 2,000, together with continual requests from teachers and scholars to inaugurate the work in schools not organized, showed that the movement had even then passed the experimental stage. A better indication was the quantity and quality of practical work done by these school protectors on behalf of trees.

EDINBURGH—Trees in Roadway—Elms

In 1912 the leagues were not reorganized under the Commission, but reports sent to the office indicated that the work was being carried on quietly and effectively by individual members. In order to gauge the extent of the interest invitations were issued through the playgrounds and summer schools to members to attend a meeting at City Hall. While many of the protectors could not be reached in this way, more than 500 attended the two meetings, representing nineteen of the twenty-four leagues organized the previous year. Reports showed a total of 3,168 trees watered and 4,457 cultivated. This individual effort was not the result of spasmodic enthusiasm which sometimes comes from organization and results in large totals, but it represented a sincere appreciation of the value of street trees by the individual protectors and an endeavor on their part to live up to the league's motto "To make our city awave with trees."

The following is a list of the trees set out on the streets by your Commission during the decade. The list shows the number of each variety planted and the grand total.

BERLIN—Saving Fine Lindens—High Grade Trees in a double sense—
Note the HOW of Saving them

Elms	3,605
Norway Maples	11,615
Sugar Maples	719
Oaks	1,798
Lindens	392
Ginkgos	198
Oriental Planes	4,891
Poplars	693
White Ash	55
Acer Negundo	36
Bolleana Poplars	665
Tulips	98
Lombardy Poplars	93
Carolina Poplars	28
Horse Chestnuts	160
Red Oaks	177
Pin Oaks	217
Total	25,440

A number of trees were set out by private initiative during the decade. Then, of course, there are the older trees.

PARIS—Protecting Trees from Brine—Paris annually appropriates $1.25 for each of its trees

The total of all living trees now situate in Newark's streets is 62,974. And these are estimated, on a conservative basis, to have a value of $1,358,485.30.

In closing this brief review of the ten years' work we beg to tender our sincere thanks to His Honor the Mayor and the Honorable the Common Council for courtesies extended, for the indulgence with which our requests have been entertained, and for the aid granted to our work. We are glad also to express our appreciation to the press of the city for so generously keeping our work and the necessity for tree culture before the public.

THE YEAR 1913.

We remind the reader that the Shade Tree Commission carries the double responsibility of (a) the planting, maintenance, protection and care of shade trees in the public highways of the municipality and (b) the management, maintenance, improvement, repair and control of the parks

BERLIN-WILMERSDORF—Watering—Thirty men at it all Summer

belonging to the city; and we now respectfully invite attention to the following brief account of this our dual stewardship for the year 1913. To begin with

THE CITY PARKS.

Highly encouraging, even stimulating, is the fact that nowadays promoters of municipal improvements everywhere take into account, and regard as a matter of course, the establishment and maintenance of Parks and Parkways adequate in number and in area. Observe, this has become a matter of course. It was not always so. So-called "practical" men, "hard-headed" citizens, were wont in a bygone day to pooh-pooh the idea. Why parks? said they. Of what material advantage are these? The modern "practical man" sees that parks are of *great* material advantage; that they not only have divers aesthetic values, but other values that may be reckoned in dollars and cents; and that parks are not to be ranked merely as municipal luxuries, but are to be classed with water-works, sewers, pave-

LEIPZIG—Ready for Watering—Basins prepared

ments, lights, police and fire protection, as municipal necessities. Hence the aforesaid modern "practical" man advocates parks for his city. See even on congested Manhattan Island how plans are on foot to sweep bare an immense area in the very heart of the business section and convert that area to park uses as a civic centre—thus reversing, by the way, the philistine policy which less than half a century ago cut and mangled beautiful, historic City Hall Park and defaced it with ugly buildings. New York has awakened to the barbarism of this, grieves over the sin of it, and proposes to make reparation by restoring the old park not only, but also, and by way of good measure, they propose to largely extend the old park's ancient boundaries.

The park's first and direct appeal—any park's appeal—is of course to sentiment. But the "practical" man and brother will not make a face at that; for he will remember that the soul of life is sentiment. Sentiment (of one kind or other) is the spring of all human action; accordingly it is the most "practical" thing in the world, for it pertains

LEIPZIG—Watering—Always at it May to September

to practise as does the heart to the blood's circulation. Well, these pleasant parks of Newark, these garden spots, these smiling open tracts of lawn and shrubbery, of trees and fountains, and "rainbowed flowers heaped together"—is there not wholesome, sound sentiment in the very "look" of them? Do they not please the eye and gladden the beholder? Are they not a refreshing break in the otherwise endless rows of wood and brick and stone and mortar structures? Are they not a soothing retreat, at break and close of day, from crowded shops and torrid tenements and stifling narrow streets? Don't they give a touch of charm that goes to make life in Newark worth while? Don't they make the old town homelike? Well, have they not thus a part in endearing Newark to its citizens—and isn't that but another way of saying that the parks make for civic patriotism? Don't these parks (and of course the same is true of well-treed streets) don't these make the city attractive to the stranger within our gates, inviting him to come hither and cast in his lot with us. "This is the place I long have sought," says *he,* "and mourned because I found

BERLIN—Trees in the Thiergarten. Watered every three weeks throughout the Summer

it not. Here will I come, here build my home, I'll here set up my shop, here ply my trade, here rear my children, here live my life. Newark for me," says he, "and Newark for mine." And is there then no "material" gain to the town in creating and maintaining parks? Does any one fail to see how they help the growth of the city and the city's industries, how they make for the enhancement of the city's realty values, how they thus bring the shining shekels into town, how in a word they promote the city's general welfare—even its general "material" welfare, oh "practical" friend?

Of course what we have been saying is but part of a larger and underlying truth, now no longer controverted, viz., whatever tends to beautify a town tends also to advance the town in matters material as well as in higher matters. Commodious thoroughfares with pleasing vistas (like our own Broad Street) do this; so do fine buildings, open plazas, noble statuary, and so on. But, after all, the crowning touch is given by well-kept parks and well-treed streets. Is not this so? Go to; it is.

BERLIN—"Thiergarten."—Tamping after Watering

MAINTENANCE.

Now if our city parks are thus important, it is likewise important that they be well kept. They don't keep themselves, you know. Ergo, somebody must do the keeping. And this is one of the primary obligations of the Shade Tree Commission. It involves attention, persistent attention, to both small matters and large. The parks belong to the people and the people make much use of them. This is as it should be; but it means, of course, much work in the matter of "cleaning up." Paper will get itself dropped on seat, or walk, or lawn; remnants of lunch will somehow be left behind; odds and ends of all kinds have the oddest way of getting scattered abroad. And it is no small job to "gather up the fragments that remain" and thus keep the parks rid of debris. This is not a highly professional part of our work; but for all that, it is highly essential.

Then there are the lawns to be "kept up." A park with ill-kept lawns is a sorry sight, you'll say. Right. But a lawn well-kept means labor well performed. So we have to mow

BERLIN—Watering just finished—Note inexpensive Tree Guards

the grass, cut out the weeds, edge the borders, re-seed and re-sod the surface, not forgetting to turn on the hose from time to time that "a dry and thirsty land" may be refreshed. And there are the shrub and flower beds. They toil not, neither do they spin; but, believe the gardener, some one has to toil and spin for them—else would they not, in their season, be garbed in that beauty which excels the glory of Solomon in his best array. So the shrub and flower beds come in for digging, mulching, watering, renewed plantings, and divers etceteras. Oh, yes, these have to be cared for; but, man, they are worth it. They more than make good when they burst out in their varied, successional blooms.

Then there are the park trees calling for such treatments as trimming and spraying, and, sometimes, tree dentistry. Often much sub-soiling and manuring has to be done. And don't forget the park walks; these have to be kept in repair, re-covered and sometimes renewed. And besides all this, a deal of general overhauling of which we do not now

BERLIN—Unter den Linden—Notice Grating and Pipe for Watering

speak particularly. So much for "Maintenance" work on the parks generally. We pass on to tell of certain individual parks.

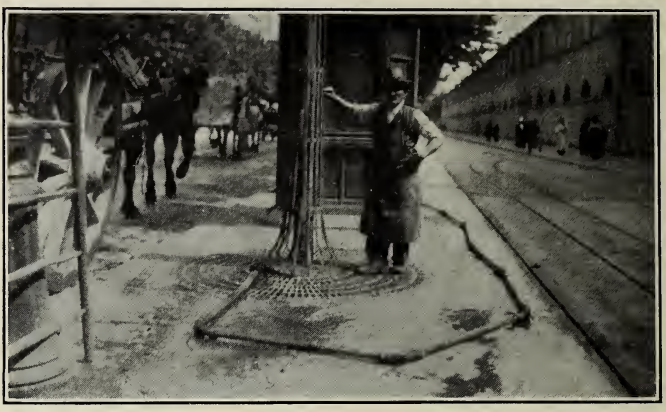
MILITARY PARK.

Military not only retains the people's grace and favor, but is daily increasing therein. This is perhaps especially noticeable when Summer comes to town. Military hath all seasons for its own; but when the thermometer breaks loose and goes a-soaring, sure it's the popular place. The same is to be said, for each in its measure, of the other parks along Broad street. But Military leads. 'Twas ever thus; an old citizen, in reminiscent mood, says he remembers when even the cows loved to frequent Military and amble o'er its lawns; insomuch that an iron fence was set up, at a cost of ten thousand dollars, to keep the cows out. "There were a great many more trees out there in the old days," continues the reminiscent one, "and a venerable showing they made; but after all," he adds, "the park looks prettier now

PARIS—Oriental Planes—Watered Daily

than it ever did before, thanks to the wisdom of putting it under the control of the Shade Tree Commission." Nicely said. A word of appreciation does carry encouragement.

But the point is that old Military, ever popular, is now more popular than ever. During the year it was used by multitudes, and not alone for strictly park uses; it served also as a gathering place for all sorts of public interests, such as religious services, band concerts, political meetings, meetings for the discussion of themes educational, economic, sociological, hygienic and so forth. An interesting feature was "the militia recruiting tent" set up by the Third Battalion, First Infantry, N. G. N. J. This was in happy keeping with the genius and traditions of Military, set apart in 1670 as the "Training Place." It recalled "the brave days of old" when the patriot recruits of the Revolutionary Army used this park, then known as The Common, as an enlisting station and "Training Ground"; recalling also those later days, equally brave, when the Union was in peril and the old "Common" was again utilized as a



PARIS—Pipe, Hose and the Man

recruiting station, where were enlisted and drilled the men of these parts who went out in defence of Old Glory. Another feature of the park linking it with things military and patriotic is the liberty pole at the apex, which daily flies the Stars and Stripes; and here on Flag Day the Spanish War Veterans did their devoir, placing a wreath on the staff.

In another place we tell in some detail of the celebration at Military of Newark's first Municipal Christmas Festival around its first Municipal Christmas Tree. A great gathering this, rather a series of great gatherings throughout the days and nights of Yuletide; gatherings significant again of the multiform uses of this park to the people. Let all whom it may concern be assured that this historic old spot, this People's Campus, is very dear to the hearts of Newarkers. We take it that "a short and easy method" by which to rouse their deep resentment would be the carrying out of certain projects now in air to cut and hack Military Park.

PARIS—Tile and Cover used with new Plantings

In addition to the work of maintenance elsewhere detailed, some "improvements" were introduced in this park during the year. A new shrub bed, about 200 feet long by 10 feet wide, was laid out and planted. The plants were selected for their plenteous, bright green foliage rather than for their floral display. A bit of green in town is rare enough to be attractive. Also the manner of growth of these plants was a factor in their selection. They grow in beauty side by side, developing all manner of graceful forms. Then about 200 feet of new and neat wire fencing was set up around the flower beds to take the place of the old fencing, which had become worn and unsightly.

A number of the park benches were set aside for the sole use of women, these benches being labelled accordingly, and the park custodians being instructed to see that the said reserved benches were not invaded by Mere Man. On a pleasant day at noon the day is made more pleasant by the bright array of the women employees of nearby department stores occupying these seats, enjoying lunch, the fresh air, and their noon-tide rest.

MUNICH—Tile to facilitate artificial watering

Two ancient elms in the centre of the park which had long been landmarks, were taken down.

The Band Stand, which was afflicted with tuberculosis of the limbs and spine and was leaning badly, had to be braced up, "angled straight," and have new posts set in. This job was but a stop gap, however. What needs to be done is to raze the old, worn-out, unsightly structure altogether and set up a new Band Stand. The basement should be large enough to serve as a storage place for barrows, tools, supplies and the like; so that the structure would be not only ornate, but useful. The Council, we hope, will enable us to put a stand in Military Park that will be worthy of the place and of the city.

A number of other new things are much needed in Military Park. Among these are a sufficient number of Light Standards. More Drinking Fountains are needed also.

The dirt walks in this and other parks were surfaced with stone screenings packed down, and the stone walks

LONDON—Outside Kensington Gardens—Gratings—Under each a Basin to collect the rains

lined at the side with the same material to give the edges a trim appearance. The flag pole was painted and the ball at the top re-gilded. Now pass north on Broad street to

WASHINGTON PARK.

Take the east side of Broad, and presently as you go north you get a view in fine perspective of the Washington Memorial, set on a mound in the southeast corner of the park at the intersection of Broad Street and Washington Place. A fitting first view this, of Washington Park. It need hardly be said that this point was made the scene of appropriate ceremonies on our Country's Father's Birthday, the ceremonies involving exercises by a detachment of Boy Scouts and the placing of a wreath on the statue. This Memorial, it should be remembered, is the bequest of the late Amos H. Van Horn, who also gave the Lincoln at Court House Plaza. A third bequest of this patriotic Newarker and veteran of the Civil War provides for a Soldiers' and Sailors' Monument, plans for which are under way.

DRESDEN—Omission and Admission—Curbs Omitted; Water Admitted

The Coles Monument, at the apex of Washington Park, near the Public Library, underwent a change during the year. The monument as originally constructed consisted of a pedestal six feet high, surmounted by a bronze bust of Dr. Abraham Coles, physician, poet, philanthropist. The change consisted in replacing the original pedestal with a new and taller shaft of Westerly Rhode Island granite. The original pedestal was noteworthy, among other reasons, for the stones which composed it. These were from divers places and climes and included a piece from Plymouth Rock, a stone from Bethlehem of Judea, a stone from Nazareth of Galilee, another from the Mount of Olives. Also a fragment from the top of the Pyramid of Cheops. The stones from the Orient had begun, as was natural, to show signs of disintegration. Accordingly Dr. J. Ackerman Coles, the donor of the original monument, decided on a change. The Shade Tree Commission promptly approved and the new shaft was set up. It is to be noted that some of the stones above enumerated are preserved in the new arrangement.

HAMBURG—Iron Pipe installed with each planting—Admits hose for watering lower roots

Late in the year we planted bulbs in several of the city parks for the ensuing season's tulips. Washington Park received special attention in this respect. Several new flower beds were installed here. The Washington Monument was not forgotten; eight hundred crocus bulbs, blue and yellow, being set out on the mound just above the tablet. These bulbs were arranged to form the inscription "SPRING," with a star shape at each end. This inscription of crocuses will show nineteen feet across and five feet high.

An urgent need at Washington Park is a new watering system. There should be a number of hydrants installed at such distances apart that every point of park surface could be watered with a hundred foot hose. Such a system is indispensable if all portions of the park are to be kept equally well-watered during hot, dry weather. We trust the Council will enable us to carry out this project. It would mean much for the lawns, the shrubbery, the flower beds, the general appearance of the entire park. Talking of improved watering facilities brings to mind the case of

FRANKFURT—Proper setting of gratings—Shallow Basin collects water—
Water gradually reaches roots

LINCOLN PARK.

Here, until a few years ago, the system of water supply was very inadequate, there being but one tap to draw on for the entire park. Of course, under such a handicap, there could be no adequate or equalized watering of the lawns and beds. Also, of course, the grass and shrubs and flowers could not show at their best. So we installed a new water system. Under this system the pipes were so laid and the taps so set that we have since been able to water the entire park surface, or any part thereof, with a one hundred foot length of hose. The pipes are on such grade that they are self-draining. In all there are ten taps now in this park; which means ten times better watering facilities than of yore; and this has resulted in a ten times improved appearance of Lincoln Park.

We "point with pride" to Lincoln as perhaps the choicest for purely landscape effects among the city parks. It is a bit of forest land come to town. Its stately trees, and shaded

HAMBURG—Tree Guard—Grating

walks, and spreading lawns are a delight. It is the most "wooded" park under the city's care. In an area of 4.37 acres it carries 205 trees, Maples, Elms, Poplars, Red Oak. These, in conjunction with sward and walks, give vistas of beauty not surpassed by Nature's own woodlands. Lincoln is in high favor with the family folk nearby. It is a large (and a lovely) feature in their neighborhood life. Indeed, to all the people dwelling in the crowded districts round about, this park is a benefit greater than can easily be calculated; and this is especially true as regards the mothers and children. On a torrid summer's day behold them! Out of the swelter and the smother of the crowded tenement, out of its heat and its odors and its varied other horrors, these mothers and their little ones are come hither to Lincoln, to this bit of the forest primeval; and here rest the mothers in the cooling shade and there romp the children at play, and for the time there is forgetfulness of care and of heat and of other woes that make life hard. This is the park of the poor man; this is his "bit estate"; and one such man whose custom is to come at twilight of a summer's eve and

NEWARK—Paving Blocks piled—No encroaching on base of Trees

sit, with book and pipe, beneath a tree and read, or smoke, or gaze in pensive quietness around, quotes thus, in playful seriousness, of Lincoln Park:

"This forest is my loyal friend,
A Delphic shrine to me."

CLINTON PARK.

Just over the way from Lincoln is little Clinton Park with its forty-nine one-hundredths of an acre. A pretty spot with a fountain in the midst; and, round about, some sightly lawns and graceful shrubbery. Also a flower bed. Here and there a park settee. A cozy place to take the air and look about upon the life and movement of the circumjacent spacious thoroughfares.

The fountain, the construction of which was begun in 1912, was completed early in 1913. There is a central shaft which is of brick surrounded by granite boulders. Above this rocky base is a table of white marble, seven feet in

diameter, and above the table, an upper basin, also of white marble, four feet nine inches wide, and rising eight feet above the street level. When the fountain is in action a single jet of water springs from the center of this basin and is deflected by the table over the rock-work base. Ferns and moisture-loving plants are set between the boulders, and in the season water lilies appear in the lower basin. A fountain altogether ornate and quite the unconventional. Design by Harold A. Caparn, landscape architect. Cost of entire structure, with drain, connections, plumbing and etceteras, $1,148.20.

LIBERTY SQUARE.

Not a new park. An old park with a new name. A triangle bounded by Central Avenue, Fourth Street and Warren Street. This park had come to have all manner of designations, e. g., Central Avenue Park, Central Square, etc. So it was thought it would tend to seemliness and also to avoidance of confusion if this park were given a new name—it would be more correct to say given a name for the first time by official authority; the other names having, like Topsy, "just growed up" with the place. Accordingly this pretty park has now a new name in the land, viz: Liberty Square. A company of gentlemen doing business in the neighborhood presented a flag-pole, 70 feet high, the gift including a concrete base and iron holder. There was the further gift of a new flag 22x11 feet. The pole was dedicated and the flag unfurled with appropriate ceremonies on April 18, 1913. A tablet at the base of the pole will bear a suitable inscription. Long float the flag and long live Liberty Square.

MILFORD PARK.

Here, over and above the usual routine work of upkeep for the year, we had to re-sod about one-fifth of the entire lawn area. Also re-graded and re-surfaced the walks. No other "special" work at Milford for 1913.

JACKSON PARK.

At Jackson we laid out and planted a new shrub bed along the whole length of the south side, viz: the side fronting Gillette Place. The bed is about 150 feet long, with a mean width of 15 feet. The plants are of the same nature with those set out in Military during the year; that is to say, they are plants selected for their foliage and graceful forms rather than for their floral display.

NEW ACQUISITIONS.

Early in the year there was conveyed to the City by deed of gift a parcel of land at the northeast corner of Randolph and South Fifteenth Streets. This parcel forms a detached triangle and has an area of about five one-hundredths of an acre. By the terms of the deed of gift the land is set apart to be used for park purposes and is dedicated to that sole use. The donors were Mr. Henry Herpers and Mrs. Lillian E. Herpers. This parcel we are to devolop as a park and assume the care, upkeep and maintenance of the same. We desire here to record our recognition of the public spirit which prompted this gift and to tender on our own behalf, as well as that of the people, very sincere and cordial thanks for the same. It is proposed to name the park, when developed, after the donors.

Another acquisition during the year was a triangular plot on Elizabeth Avenue at the foot of Chancellor Avenue. This was left as a kind of remnant after alterations made by the Board of Works at the point indicated. It was handed over to the Shade Tree Commission to be developed and maintained as a park. Area, 3,134 square feet. This, with the Herpers parcel above referred to, increases by 5,312 square feet the park area for whose development and upkeep we are now responsible. This will mean more expense to the Department, of course. In addition to the initial work of development there will be more lawns to keep, more grass to cut, more soil to treat, more shrubbery and trees to look after, and so on. But we trust that the Council's allowance will be correspondingly more, so that these added responsibilities may be met.

NEW PARKING STRIPS.

Then a string of parking strips on Hawthorne Avenue came under our jurisdiction during the year. There were nine of these strips in all, extending (along Hawthorne) from Clinton Place west to the City Line. Each is fifteen feet wide. The length varies from forty to two hundred feet. There is a total area of 20,850 square feet. These plots have been sub-soiled, manured and seeded; and in due course we shall plant them with trees and shrubbery. When these strips have been thus parked they'll make a picture worth looking at. This is a mode of street construction susceptible of much variety and beauty of treatment. It should be encouraged. May the tribe of parking strips increase.

SHRUBS, SODS AND THE NURSERY.

Instead of setting out flowering plants exclusively we this year planted in several parks many shrubs of the hardy and perennial sort. This does not mean that the flower

beds have been or are to be displaced. Nay, nay. It means only the introduction of a park feature that will endure for a longer period than flowers will blossom.

This work demonstrated another value of the City Nursery. A few years ago there was set out along the highway, on which the nursery faces, a hedge of California Privet. This was done (1) to improve the appearance of the nursery and (2) to grow hardy shrubs that would acclimate. The result was a handsome hedge; and it grew rapidly, so rapidly that there was soon an abundance of it for transplanting into beds in the city parks. There is the added advantage that the shrubs are of good size, strong, healthy and adapted to this climate. When transplanted they took root quickly and flourished beautifully.

And then as to sods. Here again the City Nursery proved its worth. We have been able to grow there that not-easy-to-be-obtained material—"good sods." Much inconvenience and disappointment had attended our efforts to obtain suitable material for re-sodding the park lawns. Good, healthy and strong sods were not to be got at easily; whoso hath such a sod usually wishes to keep it for himself. Sod from a lot where a cellar is to be dug may sometimes be had; but it is apt to have been much tramped on and become "worn down." The sod taken from our nursery is firm in texture, not worn down, and free from nettles, weeds and the like. So you see the City Nursery is worth while for more reasons than one.

SOME PARK DESIDERATA.

We ought to have a new lighting system for Military Park. The present system is not at all adequate. The cost of installing the new equipment, including standards, cable and all etceteras would be about three thousand dollars. The expenditure would be entirely justified. Military needs more light.

The apex of Military Park should be reconstructed. Also the Band Stand, now an old tottering structure, should be taken down and a new stand erected on the same site.

New cement walks should be constructed in Military, Washington, Wallace, Boudinot and Milford Parks.

A new watering system should be installed in Milford Park. We have already spoken of the need of Washington Park in this respect.

Drinking fountains should be installed in Military, Lincoln, Washington, Wallace, Central, Court House, Milford, and Jackson Parks. Military, used by so many people the year round, has nevertheless but one drinking fountain. Lincoln, also much used, has but one. Washington, though so well frequented, has none. The other parks named have, each and all, none. This is not as it should be. Shall not the people in the parks have water to drink? Let us set up these needed fountains.

SOME PARK MISCELLANEA.

Our friends, the squirrels of the city parks, continue to disport themselves and give pleasure to the populace. They have become very much at home, quite citified indeed. They now number about two dozen, distributed among the centrally located parks, Lincoln, Military and Washington. If you're going to feed them don't use peanuts, feed them hickory nuts or walnuts. Peanuts are not good for those wee beings. Too astringent.

We didn't mention it in the foregoing pages, so we mention here, that we did a heft of snow shoveling during January and February. Our men are so assigned by schedule, previously prepared, that each man at every moment knows his post of snow duty and proceeds thereto at once when snow comes and without waiting for specific assign-

ment. Thus it comes to pass that when it snows at night, for instance, our men are on the job in the sma' hours with plows and shovels clearing the park paths for early pedestrians on their way to work. The schedule works with like precision and promptness in case of Sunday snow.

The Morning Star had the following to say on its editorial page of June 21, 1913: "Now that the summer is here with its promise of sweltering nights for tenement dwellers, the use of the parks as public dormitories becomes a live question. Many of our large cities now allow people to sleep in the parks during hot weather; and no municipality should withhold this privilege, for it is only common humanity and will save hundreds of lives, especially of children, and the parks belong to the people. Pittsburg goes a step further and provides cots in the parks for the open-air lodgers, an idea well worth copying."

PUBLIC COMFORT STATION.

On July 28, 1913, the Comfort Station at Military Park began its fourth year of service. The original cost of construction and equipment was $14,703.02. The cost of maintenance from July 28, 1910, to the close of 1913 was $16,-884.40; and the word "maintenance" here is inclusive of light, heat, power, water, disinfectants, soap, towels, paper, plumbing, other repairs, attendance, etc. The average maintenance cost per year was somewhat less than $5,000.00. This public convenience has been well worth every cent expended on it, by reason of the great public service it has rendered and is rendering. In 1913 it accommodated 941,708 persons. The outlay for the year for maintenance was $4,747.29; but from this should be deducted the year's receipts re the use of private closets, viz: $136.70. This leaves as net cost of maintenance, $4,610.59. Dividing this latter figure by the number of persons accommodated

throughout the year, we find that each such accommodation cost the City less than one half of one cent.

The station is of the underground type. It is, as to inside measurements, thirty-three feet and seven inches wide by forty-four feet and eight inches long. On the men's side there are ten closets, twelve urinals, and four lavatories; also a male attendant's room. On the women's side there are seven closets and five lavatories, with a female attendant's room. Some of the closets are reserved, a small fee being charged for their use. This privilege includes the use of fresh soap and clean towel.

Other parts of the equipment are the heating room, the coal bins, the ventilating tower with steel flue, the motor, a Rund Heater for supplying hot water, fire proof stairs and partitions, tile floors, stall partitions of polished marble, etc., etc.

This is the only public comfort station in town. Its resources are overtaxed. Newark (shall we say it?) is somewhat backward in this respect. There should be more such conveniences set up here and there throughout the city.

CHILDREN at the Christmas Tree—And they did all rejoice and sing

THE MUNICIPAL CHRISTMAS TREE
A Giant Norway Spruce 48 feet high—30 feet spread

THE MUNICIPAL CHRISTMAS TREE.

From Christmas Eve to New Year's Eve, inclusive, Military Park was the scene of one prolonged, delightful and inspiring festival. It was the occasion of Newark's first Municipal Christmas Tree. In the midst of the largest lawn of Military was set up a Norway Spruce 48 feet high, and with a spread of 30 feet. This was made the centre of the city's first municipal celebration of the Christmas Feast and Season.

The Municipal Christmas Tree idea, so far as we know, had its inception a few years ago in Manhattan. From the first the idea has spread, and now promises to prevail throughout the whole nation. Here in Newark the movement was started by "The Contemporary." To this Association it seemed an admirable means of dispensing Christmas cheer among the people. Accordingly their committee, headed by Mrs. C. E. C. Smith, took up the matter with His Honor the Mayor and other municipal authorities, including the Shade Tree Commission. All these at once and heartily approved, and from first to last gave their enthusiastic co-operation. With like enthusiasm the idea was taken up by the Board of Trade, Business Men's and Improvement Associations, Churches, and other organizations, besides individual citizens. The expense was met by popular contributions, the Municipality not being free under the law to provide funds.

The "monster" Tree, brought from Teaneck, Bergen County, and drawn by six horses, arrived in due season and was set in place on December 22, amid the huzzas of juvenile Newark. Next day, and all day long, electricians were swarming all over the big Spruce stringing varicolored electric light bulbs among its branches. There were eight hundred of these bulbs placed in the tree proper and fifty in a star shape at the top. By Christmas

Eve everything was ready for the initial illumination; the "opening exercises" proper being deferred to Christmas Night. A quartet of High School boys, stationed in the tower of nearby Trinity Church, and equipped with cornet, trombone, etc., waited the word to start things. The word was given; and forthwith the quartet sent forth upon the listening air the strains of "O Tannenbaum." They played to the North, and they played to the East, and they played to the West; then they played to the South. And behold, as the music sounded toward the South the giant Tree and its starry top began to shimmer through the dark; till suddenly the Tree, from earth to star-top, broke into a blaze of glory, its myriad lights radiant in flaming manifold colors. "Rich and rare were the gems she wore," said the poet of his heroine; but "she" never wore such gems as did that Norway Spruce, shining there in the dark that Christmas Eve.

Next day was Christmas, and, lo, the night came, even Christmas Night. And the rain also descended and the floods came and the winds blew and beat upon that tree, and it fell not. Steady there it stood, braving the blast, clad in its splendor of light, sending its rays afar. Brave, bright Tree of the Yuletide! No rain could dim its shining.

Bad weather next night; but on the night of the 27th the elements were propitious and the formal "opening exercises" occurred. At six o'clock the Tree was illuminated to remain so from thence till midnight. At seven the ceremonies proper opened with chimes from five neighboring Churches, the chimes pealing simultaneously. For six minutes thereafter sounded a fanfare of trumpets from the tower of Trinity Church. The Police Band, under direction of Charles Biedermann, played the overture, "Christmas Day." Then came the formal presentation of the Tree to the City by Carl Bannwart as Secretary of the

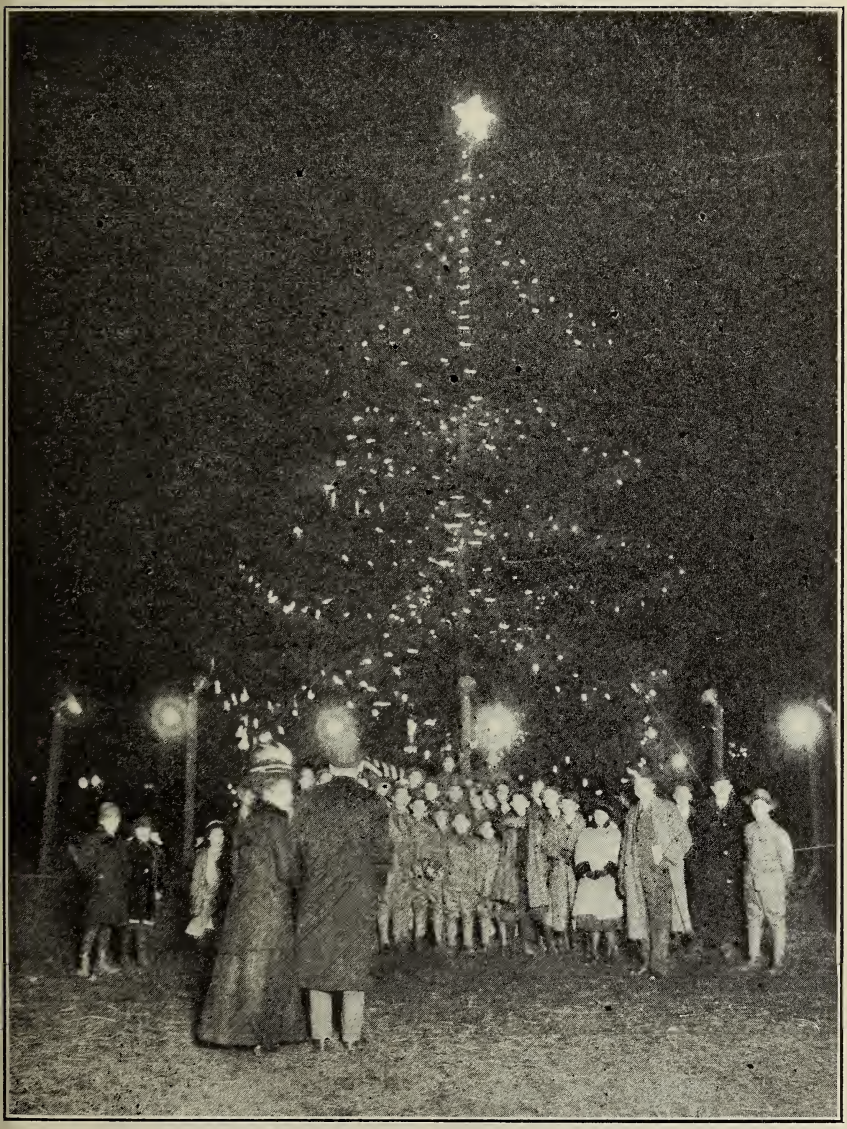
Municipal Tree Association; His Honor the Mayor accepting on the City's behalf. Followed the dedicatory prayer, offered by Bishop Edwin S. Lines.

A large stand had been erected not far from the Tree and here were assembled the bands, singing societies, church choirs, choruses, and speakers. A vast crowd had gathered. After the dedicatory prayer, the choirs and singing societies leading, and the bands accompanying, the whole great assembly broke out in song, carolling that ancient hymn of precious memories, "Adeste Fideles." The United Singers, three hundred strong, the same men who captured the Mendelssohn trophy at the Baltimore Sangerfest in 1905 (?), gathered around the enclosure of the Tree and sang two selections, Beethoven's "Hymn an die Nacht" and Krentzer's "Das ist der Tag des Herrn." The Police Band of sixty-six pieces played one stanza of "O, Little Town of Bethlehem," and three stanzas of the same were sung by the assembled multitude, the band accompanying. Again the band played the first stanza of "Holy Night," the German choirs sang the second stanza, and in the third everybody "joined in." Next were heard the inspiring strains of "Joy to the World," all the people singing, instrumental music by the Police Band. The closing number for the night was "America," and this was sung by all the choirs, all the singing societies, all the choruses and all the people, accompanied by the band—an inspiring close to an inspiring night.

Sunday, December twenty-eight, was pre-eminently the Children's Day. In the afternoon, classes from many nearby Sunday Schools of all denominations attended. The exercises opened with the simultaneous ringing of church bells throughout the city from 3:30 to 3:45 o'clock. By 4 o'clock the children had all arrived and taken their places in the stand and around the Tree. And they sang a few appropriate Christmas carols, interspersed with addresses. When the

youngsters had sung their last selection, a sweet old Christmas carol, immediately the tree was illuminated amid the applause of the assembly, the children shouting their delight. That night there was a concert by Voss' Band. Vocal selections by the colored people, leadership Boston B. Purvis. In several of the band selections there was ensemble singing. In these the crowd joined heartily. The Tree remained illuminated till midnight.

Next day, Monday the twenty-ninth, was School Day at the Tree. Nearly four thousand children from the local public and parochial schools attended. A number of prominent Newarkers were present, including Dr. Addison B. Poland, Superintendent of public schools, and Rev. Father John A. Dillon, assistant pastor of St. Patrick's Cathedral, and Superintendent of parochial schools. In addition to the boys of the schools, the Boys' Band of the City Home attended and they dispensed sweet music. The children manoeuvred prettily in drills and calisthenics. Each division was headed by a brass quartet. The children had been drilled by Misses Westwood, Haines and Mrs. Tiffany for three weeks prior to the event. That (Monday) night occurred a celebration about the Tree by and for the Italian residents of the city. Members of many Italian societies took part. The arrangements had been designed and were carried out by Rev. Ernest A. D'Aquila, rector of the Church of Our Lady of Mount Carmel. Father D'Aquila is a trained musician and had personally conducted the training of the choir of eighty voices. The singing showed the fine effects of the training. While the choir sang anthems and paeans of joy and good will, illustrative pictures of the Nativity, the Holy Family, by the immortal Italian masters, were thrown on a screen. A band of twenty pieces accompanied the choir and also rendered several selections without voices. It was the well-known Banda Bersaglieri. All hands praised Italia,



MUNICIPAL CHRISTMAS TREE—LIGHTED
Boy Scouts, keeping watch over their tree by night

Columbia, and the Municipal Christmas Tree of Newark. An added dramatic touch was given the inspiring scene by the picturesque and colorful costumes of many of the societies and the ten stands of silk American and Italian flags.

Now the next day was Tuesday, and—but really, there is no space for more detail. The descriptive matter above will furnish an indication of all the days and nights that followed to the end; only note that the interest steadily increased until the very finish.

Last of all came New Year's Eve. A great crowd assembled to attend the close of the Tree Celebration and to welcome in the New Year. Children from the seven city playgrounds had their inning. The Letter Carrier's Band played several numbers to the music of which the children danced. In addition there were phonograph selections from a big machine, and to this music the playground boys and girls went through their drill. Both drill and dances were "awful pretty," to quote a juvenile onlooker. A patriotic touch was the singing of "America." About five hundred of the young people sang this anthem and, while singing, saluted with miniature flags. Perhaps you will be interested in the program. There were the Folk Dances; such as, Ace of Diamonds Dance, Irish Jigs, Highland Reel, Pansy Dance, Ribbon Dance, Tarantella, Fairy Dance, Barn Dance, Minuet, and so on. Then the Drills: dumb bells, free hand exercises, corps drill, etc. Also the Grand March, with general chorus, the children singing "Hail Father Christmas," and other seasonal carols. From 8:45 to 9:30 o'clock there was Slavonic singing by our Ruthenian friends led by Cantor Theodosius Kaskiew. After this the assembled crowds joined in singing "O God Our Help in Ages Past." Next, "Ring Out, Wild Bells." Rev. George P. Dougherty read the Ninety-First Psalm. Rev. Father Corcoran and Rev. John A. McDowell made addresses, constituting "A

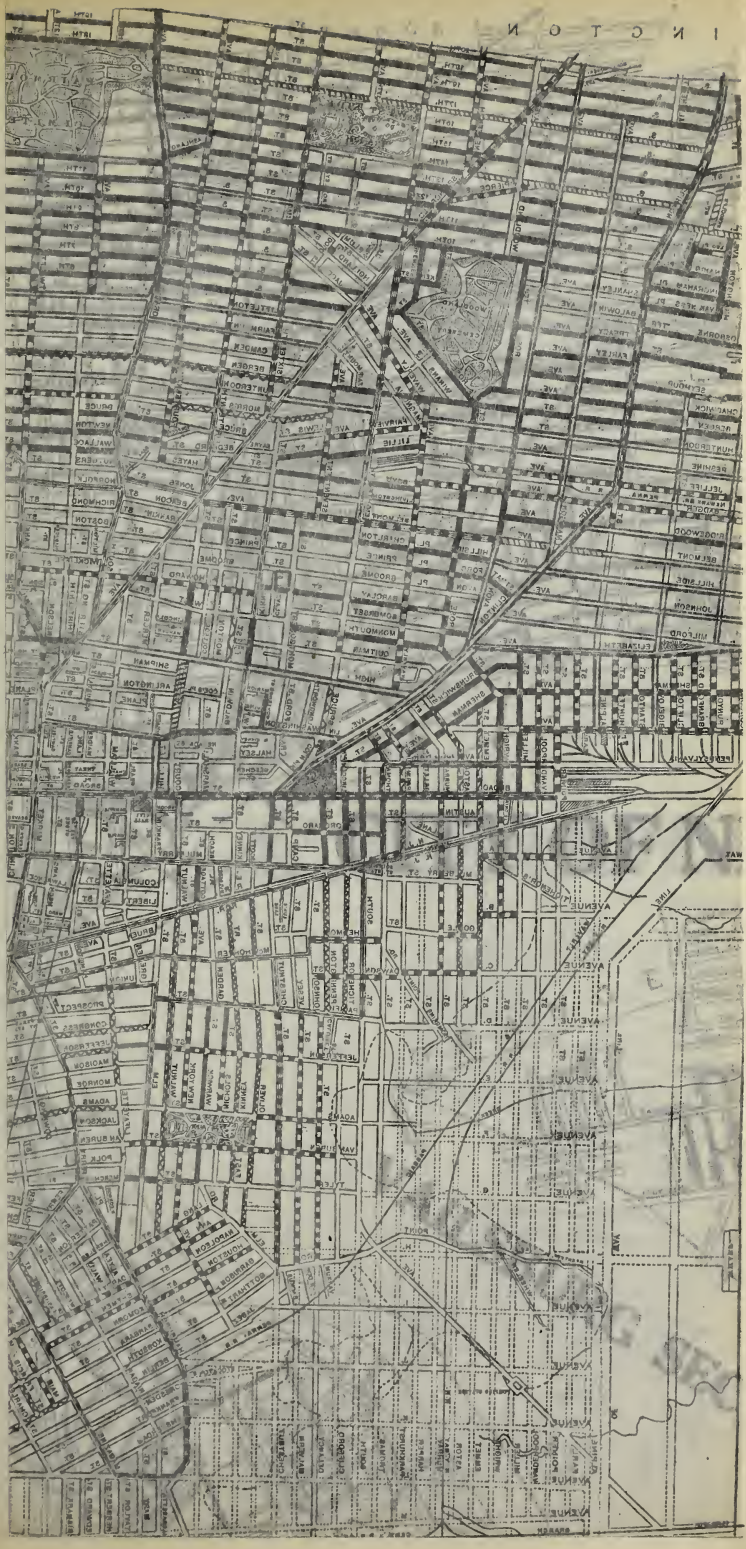
New Year's Message to Newark." Then the band played, and all the people joined in singing, "The Battle Hymn of the Republic," "The Star Spangled Banner," and "Praise God from Whom All Blessings Flow." Now the end was at hand; and at 11:59 o'clock Rev. John S. Miller arose and, as silence came upon the multitude, he prayed the "Our Father," closing with the benediction. Then taps was sounded; and the Municipal Christmas Tree Festival was over.

It had been one large time, one great success. The city is the better and the happier for it. Its memory will abide. And, whisht, tell it not in Gath, whisper it not in the streets of Askelon; but that Municipal Tree Festival became one more strand in the silver cord that ties the affections of Newarkers to good old Military Park.

STREET TREE WORK.

The appearance of a city is its chief material asset. The calibre of a city's people, as a whole, is exactly expressed in the outward and visible aspect of their municipal home. Now there is nothing that gives tone to this aspect like well-kept parks and well-treed streets. To confine ourselves here to streets, the tree planter takes the common thoroughfares of commerce and of residence, and, without in the least detracting from their "practical" uses, transmutes them into parkways of beauty. More and more this is coming to be noted; and increasingly is attention being given to this adorning of bare city streets with trees. Until comparatively recently most cities either gave the thing no thought; or, if it was suggested, tabooed it as impracticable and visionary. But the movement once started has gained momentum and now the city tree constitutes a considerable factor in programmes for municipal advancement.

For, cities everywhere are waking, though slowly, yet surely waking, to the very "practical" advantages of tree-planted streets. It is seen that these not only make for beauty, but, in so doing, make also for material prosperity. A well-treed city attracts new residents; and these, casting in their lot with it, necessarily promote its industries and enhance its realty values. Then, trees make for health; they are a source of pure and permanent pleasure to the people; they thus tend "to increase the sum of human happiness," and so, endearing the city to its citizens, they make for civic patriotism. To contribute to this end—the happiness of its people—and to thus win and hold its people's affection "should be in every city the guerdon of municipal development, paramount to any merely economic consideration."



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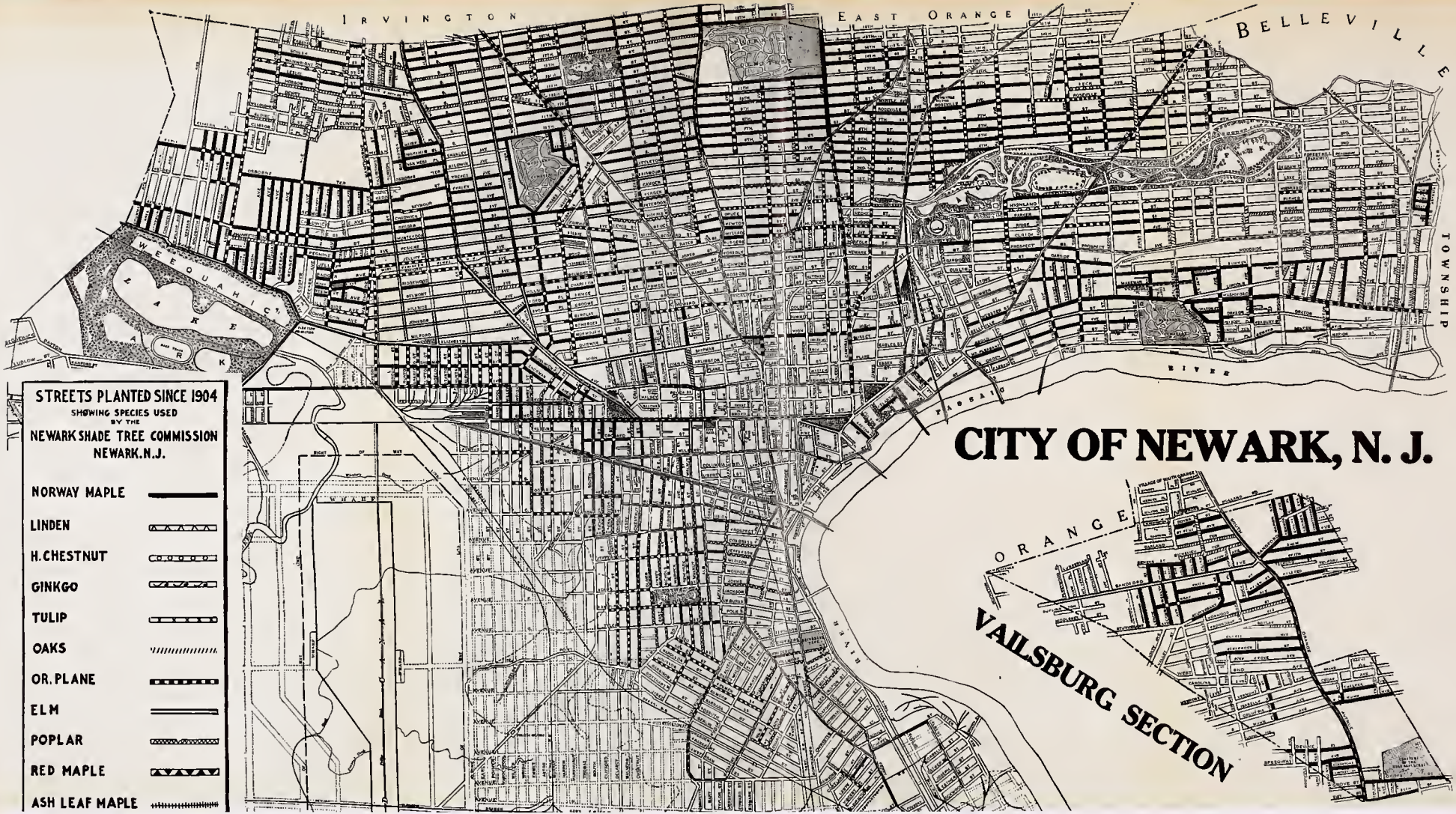
IRVINGTON
EAST ORANGE
BELLEVILLE
TOWNSHIP
WEEQUAHIC
LAKE
PARK
RIVER
PASSAIC
CITY OF NEWARK, N. J.
ORANGE
VAILSBURG SECTION
STREETS PLANTED SINCE 1904
SHOWING SPECIES USED
BY THE
NEWARK SHADE TREE COMMISSION
NEWARK, N.J.
NORWAY MAPLE
LINDEN
H. CHESTNUT
GINKGO
TULIP
OAKS
OR. PLANE
ELM
POPLAR
RED MAPLE
ASH LEAF MAPLE

WEEQUAHIC
PARK
LAKE
CLIFTON
CLIFTON AVE
HUNTERDON
MERCER
MONMOUTH
MORRIS
ESSEX
PASSAIC
BERGEN
HUDSON
UNION
SOMERSET
MIDDLESEX
CAMDEN
GLOUCESTER
SALEM
CUMBERLAND
CAPE MAY
ATLANTIC
OCEAN
BURLINGTON
MERCER
MIDDLESEX
MONMOUTH
OCEAN
HUDSON
BERGEN
PASSAIC
ESSEX
MORRIS
SUSSEX
WARREN
HUNTERDON
SOMERSET
UNION
CAMDEN
GLOUCESTER
SALEM
CUMBERLAND
CAPE MAY
ATLANTIC
BURLINGTON
OCEAN
MONMOUTH
MIDDLESEX
MERCER
HUNTERDON
WARREN
MORRIS
SUSSEX
PASSAIC
BERGEN
HUDSON
ESSEX
UNION
SOMERSET

Picture to the imagination a well-planted street. Analyze it. What are the features of this prospect? We see a roadway, sidewalks, the fronts of buildings, the sky and—trees. The roadway occupies one-fourth of the view, the sky another fourth, and the facades of the buildings about one-eighth. The other feature, covering almost half the area, is added by the trees. Does not this picture convey a lesson? Do not the trees give a pleasure and bestow a character that no other feature of the prospect can hope to rival, and this at less cost than any other feature?

Go into figures. There are so many buildings (homes) on each side of the street. Each building cost $5,000. Each has a frontage of 25 feet; so compute what may be called the "frontal" cost of each building at $200. Counting both sides of the street there is in sight a total building frontage of, say, 500 feet. $200x500 = $100,000. The roadway as paved cost, say, $2 per sq. yard. 30,055 sq. yds. x 2= $6,110. Sidewalks, 75c. per linear foot. 500 x .75 = $375. Curbs, 35c. per lianear foot. 50 x .35 = $175. The sky is free. Its limitless beauty, like all its Maker's gifts, is without money and without price. And the Trees come near to being as free. They come at $4 per. Say 15 trees on each side of the street. Total, 30 trees; cost $120. Here are the figures in synopsis:

Roadway	$ 6,110
Sidewalk	375
Curb	175
Buildings (Homes)	100,000
Trees (maximum figure)	120

See? No need for comment. Money talks, they say.

However, note that the $120 appraisal on the trees represents only the initial cost. The trees have grown through the years in size and girth and beauty—also in realty value—

till now a fair (and conservative) appraisal would be $100 per. Total for the 30 trees, $3,000. This by way of parenthesis only; but it is worth while to thus point out in passing that every other feature in the prospect before us deteriorates and thus depreciates in value—always excepting the sky; that remains constant. The trees alone *increase in value*. The moral is—plant trees, plant trees and care for them, plant trees and protect them.

But such planting, care and protection of trees is not a job to be left to private initiative. It must be brought under municipal control. The need for such control is all but self-evident. To depend on private initiative in this matter will absolutely not do. For proof and illustration of this you have only to look about you in cities where municipal control does not yet obtain. Private initiative, at its best, is but a hit-or-miss method; and Street Trees are too important a factor in the city's life to be left to the tender mercies of a hit-or-miss expedient. What is needed is Municipal Control, and such control concentrated in a single Department specializing in the one thing, viz., Street Trees (with possibly "neighborhood" parks on the side).

What Municipal Control of Shade Trees can do may best be illustrated and proved by what it has done; and as we have first-hand knowledge of what it has done in Newark, we may be pardoned for citing the experience of that blooming town—though it is our own. We beg, therefore, to commend to your honorable body and to the general reader a re-perusal of the very condensed statement of that experience set forth in the early pages of this Report—a resumé of a decade's activities. The results there indicated show some, but by no means all, of the uses which a Municipal Department may serve. They are results which simply could not be achieved by any individual, or by any body of individuals other than a Municipal Commission. This,

we hope, has been made sufficiently clear and conclusive in the earlier pages referred to.

Ten years ago the Shade Tree Commission was regarded as a great innovation. The care of its trees by the municipality was even resented. Some property owners considered the activities of the Commission an interference with personal rights. They resented the powers of the Commission. When later it became necessary to pass an ordinance requiring owners to secure a permit before they could trim their trees or have them trimmed, or before removal, this opposition flared anew. But this is all changed now. Provisions of the law which make drastic reading to our legal-minded friends, have worked for an enlightened care of the trees. In their effect they simply do for the trees what up-to-date communities should do for them. Many critical or distrustful citizens were soon completely disarmed by the fruits of our labors. They lived upon or daily passed streets along which we had planted. During the spring and summer their minds were kindled by the picture; the promise of beauty, the touch of nature which give dignity and attractiveness to a thoroughfare. These chroniclers of the seasons' progress before their own doors became eloquent advocates. The persistent care and attention we bestow upon the 26,000 plantings we have set out will nurse them to stately overarching trees. How much such vistas will mean to the health and comfort, the daily pleasure of the citizens!

Every tree is like a mill that runs itself. A mill, moreover, grinding out a daily product of health and beauty. The raw materials it uses are the minerals from the soil and the gases from the air. The leaves are the machinery that takes charge of the raw material and makes it into the finished product, sap that goes to feed every part of the tree. The sunlight is the power that runs the machinery. This mill has

its waste products and these the leaves send off into the air. They are the very things that we human beings need most, oxygen and moisture. Do you know of any other factory that runs itself, furnishes its own materials and gives away its products to bless and brighten the world?

The trees we purchase are selected, marked and reserved at the nurseries. The following specifications are the standard; no trees below this standard in size or quality are ever considered for street planting. Trees must be two inches in diameter one foot above ground; first-class stock, transplanted, well grown, healthy and with straight stems. Of course lopping off all branches to a height of eight feet does not improve the appearance of the tree per se. But this is necessary for street plantings because the branches must be above the heads and umbrellas of pedestrians. For lawn or park use these lower branches should not be removed. The trees must also have well-developed heads beginning not less than seven nor more than eight feet from the ground. The stock must have good, fibrous roots, such leaders as will guarantee an upright growth and be entirely free from injurious insects and disease.

We advertise for competitive bids of these supplies of nursery stock before purchasing. Usually some twenty nurserymen send offers. These give a good line on the market and indicate where the desired specimens may be found. Personal inspection informs us as to the quality of the stock. If the nursery is at a great distance we ask for representative samples with bids. Three thousand seven hundred and seventy-one 2-inch trees were purchased in 1913.

An important factor often overlooked by the inexperienced is the selection of young stock of a given size as distinguished from old stock made up of the remainders of nursery rows—the left overs. These latter will never be as good

trees. In the very nature of the case they lack a vitality, a certain vigor. If they have not done well in the favorable conditions of the nursery, it is not likely that they will live at all under the difficult conditions of city streets. And again, the specification of greatest importance pertains to the roots. The roots are the stomach of the tree and a fibrous root system is more important than a straight stem and a good head. These latter two are also important but they will not avail if the first condition of a compact ball of fibrous roots is missing.

We also purchase considerable quantities of trees one to one and one-half inches in diameter for the City Nursery. Here these are cultivated, transplanted, root-pruned and pruned for a period of two or three years before setting out along the streets. Frequent transplanting develops roots. It is therefore an essential procedure for prospective street trees. One way to make sure of such transplantings is by caring for them in our own nursery until they are suitable for street use. Fifteen hundred one to one and one-half inch Norway Maples were purchased for the nursery during the year.

We have consistently chosen species with reference to their ultimate size and the width of the street as well as the character of the soil. In our retrospect of ten years the notable error in the selection of species were the elm trees. These have been among the most unsatisfactory of our early plantings. To be sure, some of them have made a splendid growth, but being subject to the Wood Leopard Moth, Elm Leaf Beetle, Tussock Moth Caterpillar and Wooly Louse, their life is either menaced or their appearance marred by one or the other of these enemies. Of course, the Elm Leaf Beetle and Tussock Moth Caterpillar are easily controlled, and the wooly louse comes and goes of its own accord and is not fatal. But, even then, with three in-

sect enemies eliminated we have the fourth—the Wood Leopard Moth. One of these in its larval state may kill a tree. Not much chance for elms then except under ideal conditions of care and location—they have too many handicaps.

Another restriction in the use of elms has been enforced by our experience—they should only be planted on streets having a tree belt, i. e., a strip of ground from three to eight feet wide between the curb and the walk dedicated to the trees. They seem to demand more air and moisture than other trees—more open space. The policy of setting them out in scant openings in cement and flag walks has been entirely discontinued. Of course in some cases the present trees were set out in the midst of tree belts. Through the thoughtlessness of individuals or the lack of control the surroundings have been to this extent changed. The wide area of the tree belt with its attractive greensward was flagged, limiting at once the life and thrift of the tree and the permanence of the plantings and robbing the street of a most attractive feature.

On wide avenues the Oriental Plane is substituted wherever elms succumb. We give the Plane second place in the limited list of species suitable for streets. It grows more rapidly than the Norway, is comparatively immune to insect attack and seems to be as satisfied with urban conditions as any other tree. The London Plane (var. acerifolia) is the one chiefly used. The experience of many European cities endorses the great utility of Planes as a street tree.

There have been no new developments in the matter of the species selected. The suitable species are very limited as will be seen from the list of plantings at the end of this report. The Norway Maple is by far the most popular. This is

partly due to its size. It is a small tree. This consideration alone makes it pre-eminently suitable for residential sections with streets from fifty to sixty feet wide. Of course it has other good qualities. It is very hardy, tolerant of city atmospheric conditions, the smoke and dust, as well as excessive moisture and drought upon occasion.

Oaks, red and pin, are also used in small quantities and occasionally where a residential street admits of a variation from these, other species, such as the Horse Chestnut, Linden and Red Maple, as well as a few Schwedlerii Maples are employed.

In the matter of the sub-surface preparations for the trees there has been no slackening of the requirements. We are far more likely to increase the area of the planting pit than to decrease it. It is better to err on the side of liberality here than parsimony. The roots of the tree will find what you put into the pit sooner or later and reward your generosity by far exceeding results in growth. The minimum area is still 4x4x3½ feet (in Washington it is 6x4x4 feet) but when we reach particularly difficult ground "filled in" or otherwise unhealthy underground conditions, the cube of good soil is enlarged. Even where the best topsoil is used, the ground is further enriched by mixing fifty pounds of thoroughly rotted manure with it in addition to four pounds of lime, ground bone and potash. But this compost and fertilizer is very thoroughly scattered throughout the 56 cubic feet of soil of the planting pit, otherwise it might do more harm than good. The roots must be set in contact with the soil. If they are put near a lump of manure, they are harmed. Too much manure kills more quickly than too little.

In most cases the trees are planted in the strip between the curb and the walk. They are set two feet inside the curb

line, thirty-five feet apart. We do not set any trees less than two feet from the curb line. The projecting hubs of garbage wagons and other vehicular elephants do enough damage without having the tree deliberately put in the way of danger. If there is a tree belt wider than two feet the approved practice is to plant the trees in the middle of this strip unless it is necessary to conform to the line of trees already there. In at least seven-tenths of the cases the planting is done upon this simple principle of one row of trees between the curb and the walk because of established character of the street layout. But some important variations have been made. For instance, Ballantine Parkway was laid out and planted by a land company who set out four rows of Silver Maples about fifteen years ago. These have been so riddled with borers as to constitute a nuisance rather than a joy forever. The property owners thoroughly dislike them and with reason. Upon invitation many frontages along the street are being reconstructed by us. The Silver Maples are cut down and four rows of Norways are set out on each side in their stead. These we space diagonally to insure a sufficient area for the full development of each tree, also to carry the appearance of four rows in the perspective. In another section the trees were set out two rows on each side, one between the walk and the property line, the trees being the usual distance apart. This treatment will ultimately give the appearance of two lines of trees, a sort of "McCosh Walk" between. Again, another variation has been to set out only one row of trees but place these inside the walk. This has its advantages. The street gains a more spacious appearance. The roots have better soil and may grow in all directions, not being so near the curb. The trees are also less likely to be injured by runaways and other accidents of traffic and the initial cost may also be reduced because a tree guard may not be necessary, although we prefer to so guard all our trees. Another

advantage of this method is that it eliminates the conflict with overhead wires. If the poles are set between the curb and walk and the trees between the walk and the property they are less likely to conflict.

We never set out trees without tree guards; not even for a night are they left unprotected. The guard is put on immediately after the tree is planted. The guard should not be less than six feet high; even then injuries are committed—some horses have a long reach. Another element of protection is the stake. One stake usually suffices. We use a dressed chestnut stake nine feet long 2x2 inches and upon these are stamped the season when they are used. Thus, "F, '13 NSTC". This enables us to tell automatically upon the field when the planting was conducted or when the stake was set.

After the manner of the man who came late to the wedding and asked, "Is it all over?" He was told, "No, it has just begun." So it is with the setting out of trees. When you have planted the tree with the best of care along the thoroughfare, the work is only begun. Between the sapling and its fulfillment there is a long interval. First we have the precarious period before the roots have taken hold and accustomed themselves to the city conditions. Then the longer period while the tree attains its growth. To meet these needs and protect our trees during this trying period we give them systematic care entailing from six to eight visits a year. At these times they are watered and cultivated; broken and defective stakes and tree guards are replaced; needful spraying and pruning is done. There must be no turning back from the plow now that we have begun.

While the ordinary pruning is merely to maintain a compact well-shaped crown, we have done certain remedial pruning by the direction of State Forester Alfred Gaskill and State Pathologist Melville E. Stone. All our Oriental

Planes were pruned back last Spring to reduce the feeding area and incidentally the large percentage of loss among the new plantings of this species.

Now, do we take care of our trees? First, we cultivate them; secondly, we cultivate them; thirdly, we cultivate them—up to seven times in a season at intervals of two and one-half weeks. What do we mean by cultivating? We mean that at least 12 square feet of soil around each tree is broken fine to a depth of six inches. The first round in the Spring is very hard and takes longer, the others are comparatively easy. A man will cultivate about 200 trees a day, walk a distance of eight to ten miles while doing it—and enjoy it.

The trees are also fertilized each year. In the winter manure is placed around the base of every tree. We have usually done this with manure to be had for the hauling from nearby manure pits.

The watering of our street trees is largely confined to new spring plantings. If hot winds or an unusual season of drought dry up the young trees before they have taken firm hold this is noted and the gangs are set to water them. Occasionally a few are watered in the second year. In this operation a man goes ahead of the watering gang to open the ground at the base of the tree and form it into a shallow basin. Four bucketfuls of water are poured into this. The water is allowed to percolate into the thirsty ground to the lowest roots. Another man shovels the soil back. The wet soil is covered with this dry and pulverized earth; the moisture is conserved and the area around the base is not baked and caked.

The hot spells are a great trial to all dwellers in cities. But these can yet mitigate their condition by searching out shady spots. They can reduce the temperature by cool

drinks. The city tree cannot change its location and at a time of greatest activity receives less water than usual. Thus while the hot days are a great boon in ripening the grains and fruits in Nature's laboratory; to the city-baked tree they are the time of greatest peril. Accordingly at such times the public are requested through the press, and children through the summer schools, to water the trees of their neighborhood. The severity of the heat can be greatly mitigated by this timely service. If the property owner will appreciate this situation and water the tree *thoroughly* twice a week much of this strain is counteracted.

The most common means for the protection of trees from "mechanical" injuries is the stake and tree guard. The guards protect the tree against horses. The stake holds the tree firmly while the roots take hold and it ensures straight growth. It is also a safeguard against all kinds of rough usage. In the vicinity of school houses, for instance, we occasionally use two stakes in order to fasten the tree more firmly to the ground. We do not place the stake between the curb and the tree, but alongside the tree two feet back from the curb. Additional means of protection is enforced in connection with building construction. In such cases the ordinance requires that the trees shall be supplied with wooden guards to protect both the tree and tree guards from the teaming incident to building operations. The storing of building materials in the required open space at the base of the tree is also prohibited. These heavy building materials pack down the earth and make it impervious to air and water for months during the building work.

SPRAYING.

There was a time when our spraying was a mad rush to save the foliage, in fact, the very trees. The insects had

us on the run. Property owners were up in arms, officials were baffled. The caterpillars crawled on house and stoop, and numberless cocoons filled the crevices; promise of more caterpillars later. The people and press deplored the defoliated condition of our park and street trees. Not so now. Our spraying for seven years has been "A stitch in time to save nine." It is the tonic taken when run down to prevent the fever unto death. It is preventive spraying before it is curative.

During the summer of 1913 we sprayed our shade trees to rid the city of two well-known insect pests; the Elm Leaf Beetle and the Tussock Moth Caterpillar. The former feeds only on the leaves of the Elm, while the latter makes a meal out of every variety of shade tree in the city. With the Elm Leaf Beetle we practiced the trick of the early bird. By early spraying—getting there first with the poison—we won out. These pests go without eating all winter. It must needs follow that they are quite empty and voracious when the tender foliage peeps out. Then's the time to fix them. One good dose of leaves sprinkled with arsenate of lead does the work. No more holes will he puncture in the elm leaves. The early sprayer gets the worm.

All further trees within a limited section with the exception of the rock maple were sprayed to hold the Tussock Moth in check. Most of this spraying was also done as a preventive rather than as a remedy. Each year requires the spraying of a larger section. The caterpillars and eggs are carried in numerous ways. Until we eliminate this unknown means of spreading to new sections, the only way to control the pest is to spray. The damage to trees in these newly infested areas is hardly noticeable as yet. But we know what a scourge this insect may be if allowed to gather headway and grow unmolested. "Many mickles make a muckle;" ergo, get after the mickles.

Arsenate of lead is the stomach poison we use for all leaf-eating shade tree pests. We used the same brand as in former years. It was very effective and went into solution very readily. We use the arsenate of lead in the paste form in the proportion of eight pounds to one hundred gallons of water. A few hundred pounds in powdered form were tried. It is as effective and goes into solution as readily but the powder is more dangerous to the men using it. Being light in weight, particles rise in the mixing. The menace of lead poisoning is accentuated by these characteristics and consequently the danger of inhaling it.

We use gasoline sprayers, exclusively, to apply the spray solution. Last year we used four gasoline sprayers; three makes, among which the Bean machine is the favorite because it does the best work. With these four machines we covered a greater area in 1913 than in any other year.

Between May 19th and June 28th we had the four machines in the field on every suitable day. The gangs treated a prescribed territory and at the same time requests for assistance from all parts of the city were investigated and complied with. These scattered appeals kept coming until August. But, of course, the danger was by that time negligible. If the foliage has been protected till August the tree will not suffer much nor is the second brood likely to be numerous with us. Property owners in outlying sections can be of invaluable assistance in checking these depredations by giving immediate notice to the Shade Tree Office, preferably by card, of threatened danger.

Other spraying was comparatively unimportant. It was designed for restricted pests. The Elm trees were sprayed for scale, the rock maple for pseudococcus and the silver maple for cottony maple scale.

PRUNING.

The mutilation and destruction of street trees through unintelligent pruning which was formerly a frequent occurrence has been reduced to a negligible quantity. This control we are able to exercise by virtue of the ordinance requiring property owners to apply for permission before pruning. As a matter of practice the Department issues permits to the property owner at his request, after the trees and the record of the pruner have been looked up. The men who do this pruning at the expense of the property owner are more or less the same from year to year. And we soon learn whether they work with judgment and a real knowledge of the subject. When the permit sought applies to poplars and silver maples we are more ready to issue permits than when better trees are involved. In the case of trees of good quality, we do the work ourselves rather than take any risks as to the judgment of unskilled men. However, the issuance of permits applies to a comparatively small number of cases only. As a rule the householders make direct request to us to prune their trees. We comply with these requests in the order of their receipt when other labors limited to a brief season of the year, such as planting and spraying, do not take precedence. We trim every month of the year and by distributing the work over the year we are enabled to keep skilled men for this and other work of the Commission.

The change effected by this trimming treatment is radical. Thousands of trees take on a new outline. They are groomed—cared for. The pruning has been done in the sight of all the citizens and speaks for itself. The cuts are treated antiseptically so that the bark may cover the scar before decay can set in. Aside from the removal of unsound wood, which menaces the life and limb of the passers-by and which threatens adjacent property, the decayed por-

tions which are also breeding places for insects are removed and the cocoons and egg-masses are destroyed.

In addition to pruning streets within an assigned section as above remarked the trees of our own planting all over the city received all necessary attention. Then some five hundred requests for pruning on behalf of some fifteen hundred trees were received. These were complied with in order of their needs.

Citizens are asked to report the need of trimming. We comply with these requests promptly at all times except during the Spring and Fall planting seasons. Unfortunately the average property owner makes his requests at that time only. For instance, during December, January, February and early March thirty requests by card, letter, telephone and interview were received. Between March 15 and April 15 two hundred were received. When requests are made in April some time must needs elapse before the requests can be complied with. We cannot postpone planting but we can postpone pruning.

Nevertheless we welcome all inquiries and trimming requests. Even if the request concerns matters off the street line and we cannot therefore do the work we can at least make an inspection and give expert advice on what is needed.

SIDEWALK FRICTION.

The sidewalk layout is closely related to the health and continuous thrift of the trees. Yet the character of the sidewalk whether a strip of open ground shall be maintained—"a tree belt"—or whether it shall be flagged or cemented is entirely outside of our control. The Board of Street and Water Commissioners has this in charge. The sidewalk inspector under their direction exerts pressure to increase the paved area. This pressure from the sidewalk inspector,

who is feared by many householders, works against the maintenance of a uniform strip and by the same token contrary to the welfare of the trees. No one property owner on the block should have the right to flag his walk to the curb if such change breaks up the alignment of the tree belts, especially if the width is otherwise ample for traffic. By such a course he destroys what our forbears established in the way of adequate conditions precedent for the thrifty growth of the trees.

We are not finding fault or throwing stones. We are stating a fact, presenting a situation as it exists. The Shade Tree Commission works for a larger open area, in short, for living conditions for the trees. Enlightened city planning demands the maintenance of tree belts. Our City Plan Commission is in favor of such maintenance, but the sidewalk authorities consciously or unconsciously hamper and thwart this enlightened policy. They are in such a strategic position that one single individual, and he an unsympathetic inspector, has more weight than the City Plan Commission and the Shade Tree Commission combined, even with all the arguments against him. Another bad feature is that often when we plant the trees the conditions are ideal, but after a year or two this passion for heat-baked pavements flames up into new activity and the favorable conditions are changed. It is the right of a street tree to be planted where the conditions of growth give it a fair chance without handicap. The city as a whole assents to this by its support and endorsement of our work. There should be team work between the city departments in resisting reactionary tendencies. If the city pays out $30,000 per annum to foster street trees, no one in the city employ should run counter to the progressive policy of giving the trees enough room. Trees are worth infinitely more than pavements. A square foot of walk is worth from fifteen to twenty cents, a mature tree is worth $75 per square foot of cross area of trunk.

GAS LEAKS.

The engineers of the gas company sometimes need to be convinced that illuminating gas is harmful to trees. Occasionally they allege expert chemists' testimony that it is not harmful. In such cases we quote the action of the poisonous gases upon the roots, supporting this quotation by the examples of Professor Waugh of Amherst.

Illuminating gas escaping around the roots of a tree injures it. The gas dissolves in the soil moisture and is absorbed by the roots. If the leakage is small, from two to three cubic feet a day, the injury may be slight and becomes manifest by the presence of dead branches. But where the discharge is heavy or the gas has been leaking in small quantities for a protracted period there is no hope for recovery. The tree will be killed. In cases of gas poisoning the leaves dry up, turn yellow and fall off suddenly. Often the bark takes on a deadened appearance, various species of fungi in compact masses soon follow on the trunk of the tree. The sap wood becomes discolored and emits a characteristic odor. If the gas is still present in the soil it can be easily detected by this obnoxious odor. Thorough aeration of the soil will hasten the escape of the gas. The distance over which the gas will travel depends upon the character of the soil. In gravelly soil it is said to travel as far as 2,000 feet when the ground is not frozen. In heavier soils it is confined to smaller areas.

DEAD AND DANGEROUS TREES.

The Commission has been hampered in the matter of securing the removal of dead and dangerous street trees. With the average property owner a notice from this Commission stating that the tree is dangerous to life and limb produces action. But certain other landlords disregard notices of

this kind and court danger; they allow unsafe trees to stand near school houses, for instance, and turn a deaf ear to our courteous importunities. The Shade Tree Commissioners formulated a request to the Law Department to prepare a bill giving the Commission mandatory power to remove such trees. This bill would enable us to remove the tree after due notice and to present a bill for the cost of such removal, the charge to be a lien against the property. This bill was duly prepared and introduced and is known as Assembly Bill No. 268. If it becomes a law we will have mandatory power to remove these trees. In this connection it should be stated that the City Counsel ruled some years ago that the responsibility for the removal of dead trees not of our planting lies with the property owner. Trees of our planting which die are removed by the Department and replaced without additional charge to the abutter.

PROPAGANDA LEAFLETS.

There has been a general increase in the demand for our literature. Annual Reports, Ordinances, Shade Tree Protector Constitutions, "12 Good Points of a Tree" circular and the Tree Calendar, we are led to believe, have nursed many a smoldering affection for trees into fires which generate horsepower. On account of a limited edition only a small proportion of the mailing list received our last Annual Report. The comments in the journals dealing with questions of municipal and park administration, Park and Cemetery, The American City, American Forestry, The Craftsman, the New York Sunday Times, the Arbor Day Annuals of Wisconsin and New York, Shade Tree Reports of Pittsburgh, Pa., Norfolk, Va., have brought requests for our printed matter from forestry schools, university libraries, professional foresters and landscape gardeners and Commissions for local improvement. Cuts have been loaned

for reports issued by the cities of Pittsburgh, Pa., Norfolk, Va., Urbana, Ill., and some of the publications above mentioned.

Newark is working out a problem on a large scale and the success achieved is challenging attention. In this connection the calls for advice in shade tree and park matters, advice covering general principles of management and particular instances, are very numerous. Various improvement associations and many Commissions of the State are in continual touch with us. These calls are indicative of the position of leadership which is accorded to us by Shade Tree Commissions of this and other States. The leaflet, "The 12 Good Points of a Tree" seems to have met with more popular favor than any other one thing we have published. Over 50,000 of these have been reprinted by permission, chiefly by tree authorities in various cities.

LIST OF STREETS CULTIVATED AND MULCHED DURING THE YEAR 1913.

Abbotsford Ave.
Abinger Place
Abington Ave.
Adams St.
Agate Place
Aldine St.
Alexander St.
Alpine St.
Ann St.
Aqueduct St.
Arlington Ave.
Ashbridge St.
Astor St.
Atlantic St.
Austin St.
Avenue A
Avenue B
Avenue C
Avon Ave.
Badger Ave.
Baldwin St.
Baldwin Ave.
Ballantine Parkway
Bank St.
Barclay St.
Belleville Ave.
Belmont Ave.
Bergen St.
Berkeley Ave.
Beverly St.
Bigelow St.
Bloomfield Ave.
Boyd St.
Boylan St.
Bragaw Ave.
Branford St.
Bremen St.
Brenner St.
Broad St.
Bruce St.
Brunswick St.
Buffington St.
Cabinet St.
Camp St.
Carteret St.
Central Ave.
Chadwick Ave.
Charlton St.
Chelsea Ave.
Chester Ave.
Chestnut St.
Cliff St.
Cliff Hill Place
Clifton St.
Clifton Ave.
Clinton Ave.
Clinton Place
Commonwealth Ave.
Concord St.
Congress St.
Cortland St.
Cottage St.
Court St.
Custer Ave.
Cypress St.
Darcy St.
Dawson St.
DeGraw Ave.
Delancey St.
Delavan Ave.
Demarest St.
Devine St.
Dickerson St.
Division St.
Division Place
Dover St.
Earl St.
East Kinney St.
East Park St.
Eighteenth Ave.
Eighth Ave.
Eleventh Ave.
Elizabeth Ave.
Elliott St.
Elwood Ave.
Emmet St.
Fabyan Place
Fairmount Ave.
Fairview Ave.
Farley Ave.
Fifteenth Ave.
Fifth St.
Fifth Ave.
Fillmore St.
Finlay Place
First St.
First Ave.
Florence Place
Fourteenth Ave.
Fourth St.
Fourth Ave.
Frederick St.
Frelinghuysen Ave.
Fulton St.
Garside St.
Geneva St.
Goble St.
Gold St.
Gould Ave.
Governor St.
Grafton Ave.
Grant Ave.
Greenwood Lake St.
Grove St.
Halleck St.
Halstead St.
Hamburg Place
Hawthorne Ave.
Hazlewood Ave.
Hedden Terrace
Helen Place
Heller Parkway
Hemlock Place
Herbert Place
Hermon St.
High St.
Highland Ave.
Hill St.
Hillside Ave.
Hillside Place
Hinsdale Place
Hobson St.
Holland St.
Honiss Place
Horatio St.
Houston St.
Howard St.
Hudson St.
Hunter St.
Hunterdon St.
Iugraham Place
Jay St.
Jefferson St.
Jelliff Ave.
Johnson Ave.
Kearny St.
Kenmore Ave.
Kent St.
Kinney St.
Komorn St.
Kossuth St.
Lackawanna Ave.
Lafayette St.

LIST OF STREETS CULTIVATED AND MULCHED DURING THE YEAR 1913.

(Continued)

Lake St.
Lanark Ave.
Lang St.
Lehigh Ave.
Lenox St.
Leo Place
Leslie St.
Lillie St.
Lincoln Ave.
Lincoln Park
Littleton Ave.
Livingston St.
Lombardy St.
Madison Ave.
Main St.
Malvern St.
Mapes Ave.
Marie Place
Marion Ave.
Market St.
May St.
Mead St.
Meeker Ave.
Milford Ave.
Miller St.
Millington Ave.
Monmouth St.
Montclair Ave.
Montgomery St.
Morris Ave.
Mott St.
Mt. Pleasant Ave.
Mt. Prospect Ave.
Mountain View Ave.
Mulberry St.
Mulberry Place
Munn Ave.
Murray St.
Myrtle Ave.
Nairn Place
Nassau St.
New St.
N. Jersey R. R. Ave.
New York Ave.
Newton St.
Nichols St.
Nineteenth Ave.
Ninth Ave.
Noll Place
North 6th St.
North 7th St.
North 8th St.
North 9th St.
North 10th St.
North 11th St.
North 12th St.
North 13th St.
North 14th St.
Norwood St.
Nursery St.
Nye Ave.
Oakland Terrace
Ocean Ave.
Oliver St.
Orange St.
Oraton St.
Orchard St.
Osborne Terrace
Pacific St.
Palm St.
Park Ave.
Park Place
Parker St.
Parkhurst St.
Peck Ave.
Peddie St.
Pennington St.
Pennsylvania Ave.
Peshine Ave.
Pierce St.
Plymouth St.
Poinier St.
Porter Ave.
Porter Place
Prospect St.
Randolph St.
Rector St.
Renner Ave.
Richelieu Terrace
Ridge St.
Ridgewood Ave.
Rose St.
Rose Terrace
Roseville Ave.
Ruby Place
Runyon St.
Sandford Ave.
Scheerer Ave.
Schley St.
Second St.
Second Ave.
Seventeenth Ave.
Seventh Ave.
Seymour Ave.
Shanley Ave.
Shaw Ave.
Shephard Ave.
Sheridan Ave.
Sherman Ave
Silver St.
Sixteenth Ave.
Sixth Ave.
Skinkle St.
Smith St.
South St.
South 6th St.
South 7th St.
South 8th St.
South 9th St.
South 10th St.
South 11th St.
South 12th St.
South 13th St.
South 14th St.
South 15th St.
South 16th St.
South 17th St.
South 18th St.
South 19th St.
South 20th St.
South 21st St.
South Orange Ave.
Springdale Ave.
Springfield Ave.
Spruce St.
Stanton St.
State St.
Stengel Ave.
St. Francis St.
St. Paul Ave.
Stratford Place
Stuyvesant Ave.
Summer Ave.
Summer Place
Summit St.
Sunset Ave.
Sussex Ave.

LIST OF STREETS CULTIVATED AND MULCHED DURING THE YEAR 1913.
(Continued)

Sylvan Ave.
Taylor St.
Third St.
Third Ave.
Thirteenth Ave.
Thomas St.
Tichenor St.
Tiffany Boulevard
Tillinghast St.
Treacy Ave.
Twelfth Ave.
Tyler St.
Underwood Place
Union St.
Van Buren St.
Vanderpool St.
Van Ness Place
Vernon Ave.
Verona Ave.
Voorhees St.
Wainwright St.
Wakeman Ave.
Wallace St.
Wallace Place
Walnut St.
Warren St.
Warwick St.
Washington St.
Washington Ave.
Watson Ave.
Waverly Ave.
Webster St.
Weequahic Ave.
West Kinney St.
Wickliffe St.
Willoughby St.
Woodside Ave.
Wright St.

LIST OF STREETS TRIMMED DURING THE YEAR 1913.

Academy St.
Adams St.
Arch St.
Ashbridge St.
Astor St.
Austin St.
Avenue A
Avenue B
Avenue C
Avon Ave.
Badger Ave.
Bank St.
Bathgate Place
Beacon St.
Belmont Ave.
Bergen St.
Berkeley Ave.
Beverly St.
Bleecker St.
Bloomfield Ave.
Boston St.
Boyd St.
Bragaw Ave.
Bremen St.
Broad St.
Broome St.
Bruce St.
Cabinet St.
Camden St.
Central Ave.
Chestnut St.
Clifford St.
Clifton Ave.
Clinton Ave.
Concord St.
Cortland St.
Cottage St.
Court St.
Cypress St.
Darcy St.
Dawson St.
Delancey St.
Dickerson St.
East Kinney St.
Eighteenth Ave.
Eleventh Ave.
Elizabeth Ave.
Emmet St.
Fabyan Place
Fairmount Ave.
Fifteenth Ave.
Fifth St.
Fillmore St.
First St.
Fourteenth Ave.
Fourth St.
Frederick St.
Frelinghuysen Ave.
Grafton Ave.
Halsey St.
Hamburg Place
Hartford St.
Hawthorne Ave.
Hermon St.
High St.
Highland Ave.
Hobson St.
Horatio St.
Houston St.
Howard St.
Hoyt St.
Hudson St.
Hunterdon St.
Isabella Ave.
Jay St.
Jefferson St.
Jelliff Ave.
Kossuth St.
Lackawanna Ave.
Lafayette St.
Lake St.
Lang St.
Leo Place
Leslie St.
Lincoln Park
Littleton Ave.
Madison Ave.
Main St.
Malvern St.
Market St.
Milton St.
Morris Ave.
Mott St.
Murray St.
Myrtle Ave.
Nassau St.
Nelson Place
New St.
Newark St.
N. Jersey R. R. Ave.
New York Ave.
Newton St.

STREETS TRIMMED, 1913—*Continued.*

Nichols St.
Ninteenth Ave.
Ninth Ave.
Norfolk St.
North 6th St.
North 7th St.
North 8th St.
North 9th St.
North 10th St.
North 11th St.
North 12th St.
North 13th St.
Orange St.
Orleans St.
Osborne Terrace
Park Ave.
Parker St.
Peddie St.
Pennington St.
Pennsylvania Ave.
Plane St.
Prince St.
Quitman St.
Reeves Place
Renner Ave.
Richmond St.
Ridge St.
Roseville Ave.
Runyon St.
Scheerer Ave.
Schley St.
School St.
Searing St.
Second St.
Second Ave.
Seventeenth Ave.
Seventh Ave.
Seymour Ave.
Shanley Ave.
Shaw Ave.
Sidney Place
Sixteenth Ave.
Sixth Ave.
South St.
South 6th St.
South 7th St.
South 8th St.
South 9th St.
South 10th St.
South 11th St.
South 12th St.
South 13th St.
South 14th St.
South 15th St.
South 16th St.
South 17th St.
South Orange Ave.
Springdale Ave.
State St.
St. Francis St.
Stirling St.
Summit St.
Sussex Ave.
Sylvan Ave.
Third St.
Third Ave.
Thirteenth Ave.
Tichenor St.
Twelfth Ave.
Tyler St.
Van Buren St.
Van Ness Place
Vernon Ave.
Verona Ave.
Voorhees St.
Walnut St.
Warren St.
Warwick St.
Washington St.
Weequahic Ave.
West Park St.
Wilsey St.
Wright St.

LIST OF STREETS PLANTED BY THE SHADE TREE COMMISSION IN 1913—SHOWING NUMBER AND VARIETY OF TREES.

SPRING.

NORWAY MAPLES.

Abinger Place	14
Agate Place	16
Beardsley Ave.	13
Brenner St.	28
Chelsea Ave.	34
Chester Ave.	47
Cliff St.	34
Clifton Ave.	83
Cortland St.	28
Dawson St.	41
Devine St.	66
Geneva St.	40
Grant Ave.	13
Greenwood Lake St.	19
Hemlock Place	10
Highland Ave.	10
Honiss Place	3
Kent St.	20
Leo Place	12
Leslie St.	84
Mead St.	59
Nichols St.	13
North 11th St.	46
North 12th St.	42
Plymouth St.	8
Roseville Ave.	6
Ruby Place	4
Scheerer Ave.	66
Sheridan Ave.	16
Silver St.	21
Smith St.	130
South 15th St.	46
South 20th St.	203
South 21st St.	10
Tiffany Boulevard	30
Tillinghast St.	45
Vernon Ave.	13
Warwick St.	55
	1,428

ORIENTAL PLANES.

Adams St.	33
Avenue A	37
Avenue B	22
Avenue C	42
Chestnut St.	138
Fairmount Ave.	9
Hamburg Place	64
High St.	4
Horatio St.	33
Maine St.	50
Malvern St.	138
Murray St.	78
Oakland Terrace	19
Wright St.	61
	728

PIN OAKS.

Aldine St.	92
Boylan St.	9
Hobson St.	80
Norwood Ave.	52
Richelieu Terrace	26
Willoughby St.	10
	269

RED OAKS.

Belmont Ave.	20
Clinton Place	97
Grafton Ave.	60
	177

LINDENS.

Willoughby St.	48

FALL.

NORWAY MAPLES.

Bergen St.	36
Goldsmith Ave.	19
Grummon Ave.	30
Hansbury Ave.	38
Hedden St.	25
Keer Ave.	32
Maple Ave.	34
Pomona Ave.	53
Vassar Ave.	22
Weequahic Ave.	85
	374

FINANCIAL STATEMENT 1913

RECEIPTS AND CREDITS.

By	Tax Ordinance Appropriation	$44,000.00
"	Supplemental Appropriation	10,000.00
"	1913 Tree Assessments	8,007.47
"	Arrears Tree Assessments	2,266.74
"	Trees Set Out by Request	1,013.65
"	Removing and Replacing Trees, re Sewer Work	90.00
"	Donation re Flower Bed, Clinton Park	20.00
"	Sale of Tree Guards and Stakes	80.16
"	" " Spraying Equipment and Tanks	46.00
"	" " Manure	20.00
"	Deposits to safeguard Trees re House Moving	16.00
"	Compensation re Gas Killed Trees	67.00
"	Comfort Station—Use Private Closets	136.70
"	Court Fines, as per Comptroller's Statements	72.05
"	Credit "to correct error in Comptroller's report of 1909," as per Auditor's letter, May 6, 1913	12.92
"	Miscellaneous	41.80
		$65.890.49

DISBURSEMENTS.

Pay Roll (Monthly):			
Secretary (1)	$2,204.17		
Forester (1)	1,900.00	$4,104.17	
Pay Roll (Weekly), Office:			
Stenographers (2)	1,636.00		
Clerks (2)	2,707.40		
Office Boy (1)	261.13	4,604.53	
Pay Roll (Weekly), Park Maintenance:			
Arboriculturist (1)	218.34		
Foreman (1)	200.58		
Assistant Foremen (5)	1,335.71		
Laborers	8,608.91		
Team Hire	387.77	10,751.31	
Pay Roll (Weekly), Planting and Maintaining Street Trees:			
Arboriculturist (1)	1,081.66		
Foreman (1)	780.09		
Assistant Foremen (5)	2,500.61		
Laborers	10,972.37		
Team Hire	2,515.94	17,850.67	
Pay Roll (Weekly), Barn:			
Caretaker (1)		714.02	
Pay Roll (Weekly), Comfort Station:			
Attendants		2,654.45	$40,679.15

DISBURSEMENTS OTHER THAN PAYROLL:

Trees	6,600.98
" Freight on	43.20
" Demurrage on	4.00
Tree Collars (Hose for)	40.00
Wire for Tree Guards	1,183.90

Tree Guards, Manufactured	165.00
Stakes	1,358.25
" Charcoal for Branding	6.00
Manure	445.31
Fertilizers	93.00
Plants and Shrubs	550.21
Seed	30.75
Soil	5.00
Stone, Cement	116.76
Granite Coping and Posts, Foundations and bronze chains, Washington Monument	4,650.00
Artificial Stone Walk, Washington Park	59.70
Water Rents for Parks	100.00
Repairing Water Service, Military Park	10.96
Squirrel Feed	3.55
Electric Conduit, Washington Park	12.60
Fountain Clinton Park, Constructing Foundation	495.00
Fountain Clinton Park, Setting Marble Basin	50.00
" " " Setting Boulders	60.00
" " " Taking Down Derrick and Teaming	45.00
Fountain Clinton Park, Connections and Drain	14.10
" " " Plumbing	27.85
U. S. Flags, New (2)	28.80
Painting Flag Pole (Gilding Ball, $1.50)	31.50
Wreaths, Lincoln, Washington and Boyden Statues	30.00
Flag Repairs	19.83
Band Stand, Military Park, Repairing	100.00
Electric Lamps and Repairs, Band Stand, Military Park	24.93
Light Standard, Washington Park	5.00
Wire for fencing Shrub and Flower Beds	33.46
Rods for Park Settees	12.00

Sundry Park Supplies and Repairs	20.53
Sundry Street Supplies	1.00
Paints, Oils, Asphaltum	97.16
Harness, Fodder and Keep, Two Horses	409.20
Truck Repairs and Furnishings	183.92
Tools	177.68
Tools Sharpened and Repaired	55.20
Hardware	10.15
Ladders	24.80
Lumber	7.59
Rope	4.25
Storage Rent	300.00
Water Rent for Barn	7.18
New Spraying Outfit	275.75
Spraying Outfit Appurtenances	17.31
" " Repairs	1.00
Hose	147.00
Insecticides	544.65
Gas and Gasoline for Sprayers	75.84
Tree Tanglefoot	22.50
AUTOMOBILE—	
Garage Rent, Automobile	150.00
Gasoline	203.26
Oil	16.80
Repairing	242.51
New Attachments	322.62
Lap Robe	5.00
Licenses (2)	4.00
Fee (Registration.)	7.50
Insurance (Auto)	22.50
New Typewriter (allowance old machine $25)	67.25
Typewriter Keys ($3.50), Ribbon ($2.25)	5.75
Ribbon, Adding Machine	1.00
Annual Report	347.91

Other Printed Matter	115.52
Stationery and Appurtenances	142.85
Postage	102.28
Drawings and Art Supplies	16.07
Books, Periodicals, Pamphlets, Directory	23.50
Maps Corrected	48.50
Association Dues	6.00
Shade Tree Seal, with Press	10.00
Anchor Steel Tape	2.85
Insurance (Chattels $32, 2 Horses and Feed $1.50)	33.50
Exhibit, Exposition W. O. G. Verein (Palms $9)	20.13
Special Police, Fees and Badges	32.00
Medical Treatment, Laborer	2.00
Hire of Rigs	12.50
Telephone Service	2.84
Street Car and Railroad Fares and Traveling Expenses	24.05
Expressage	7.41
Incidentals re Local Inspections	2.95
Landscape Architect's Services	52.25
Flowers, Deceased Commissioner Van Ness	15.00
Office Sundries	2.15

COMFORT STATION—

Water Rent	780.40
Motor Repairs	95.74
Soap	84.50
Towel Supply	14.42
Paper Towels	15.00
Toilet Paper	112.37
Sanitary Napkins	20.00
Disinfectants and Cleaners	91.66

Mops and Appurtenances	29.52
Metal Polish	7.40
Brooms and Brushes	7.75
Stove and Pipe—Putting up of same	9.55
Cylinder	1.25
Repairing Closets	51.00
Electric Light	339.76
Electric Power	283.54
Gas	42.14
Coal	75.94
Miscellaneous Supplies	4.10
" Repairs	25.80
Advertising Legal Notices	169.20
Refunds on Tree Assessments	18.54
Refunds on Deposits	4.00
Charge, as per Auditor's letter of May 6, 1913	7.88
	$63,881.41

Transfer under Resolution Common Council, from Shade Tree Commission Account to Contingent Account, as per Auditor's Letter of January 21, 1914	2,003.60
Charge re Assessment Refunded by Resolution of Common Council, as per Auditor's Letter of January 21, 1914	5.48
	$65,890.49

Of this amount ($63,881.41), $33,392.10 was expended for the planting, maintenance and care of trees on streets; $20,892.40 for the development, maintenance, care and improvement of Public Grounds and Parks; $4,650.00 re the Washington Memorial, and $4,946.91 for the maintenance of the Public Comfort Station in Military Park—all from January 1, 1913, to December 31, 1913.

Respectfully submitted,

Commissioners { GEORGE B. ASTLEY, *President*
JOHN J. MOONEY
FRANK L. DRIVER

CARL BANNWART,
Secretary.

ANNUAL REPORT

OF THE

Board of Police Commissioners

OF THE

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR 1913

OFFICERS.

JOHN BAADER.....President
JOSEPH M. COX.....Secretary

MEMBERS.

JOHN BAADER
PHILIP SCANLAN
LYMAN E. KANE
ALFRED L. DE VOE

ANNUAL REPORT

OF THE

DEPARTMENT OF POLICE

COMMISSIONERS' OFFICE,

NEWARK, N. J., January 1, 1914.

To the Honorable the Common Council of the City of Newark, N. J.

GENTLEMEN:—In pursuance of the requirements of an Act of the Legislature creating the Board of Police Commissioners, we herewith respectfully submit the twenty-eighth annual report of the Department under control of a Board of Police Commissioners, containing a detailed statement of the receipts and expenses and a review of the business done during the year 1913.

On January 1, 1913, the Mayor re-appointed John Baader, Lyman E. Kane, Philip Scanlan and C. Valentine Baumann as Police Commissioners for two years, running concurrently with his term of office. Commissioner Baumann died February 28th. In the death of Commissioner Baumann the Department lost a faithful and conscientious member—his experience as an Alderman and member of the Board of Street and Water Commissioners was a great help to him in the administration of the affairs of this Department. His place was filled by Alfred L. De Voe, who was appointed by the Mayor March 7th.

Combination auto patrol and ambulance wagons were placed in the First and Fifth Precinct Stations on August 4th and 11th respectively, replacing horse-drawn vehicles, thus equipping all Precincts with motor vehicles.

On May 30th, while mounted and on duty heading the Memorial Day parade, which he was just about to start, Chief Michael Corbitt met his death. In the death of Michael Corbitt the Department lost a faithful and competent commanding officer, one whose loyalty to friendships and faithful discharge of the duties of his office won for him the respect and regard of the members of this Department.

To fill the vacancy in the office of Chief of Police, a Civil Service examination was held (to which all the Captains in the Department were eligible) by the Civil Service Commissioners, with the result that the name of Captain Michael T. Long was submitted on an eligible list; he was promoted to the office of Chief of Police by the Board of Police Commissioners October 2nd, and was confirmed by the Common Council October 3rd.

On December 1st the Board created a new Precinct by taking all that portion of the Fourth Precinct above Tenth street, including the Vailsburg territory, and designating it the Seventh Precinct. Captain Thomas J. Corbally was placed in charge with three Lieutenants, three Sergeants and twenty Patrolmen assigned (ten additional Patrolmen having been appointed for this Precinct, to take effect January 1, 1914). The building 998-998½ South Orange Avenue was rented as a Station and was formally opened by His Honor, the Mayor, on Wednesday, December 17th, at 8:45 o'clock P. M.

The urgent need of the Department is an increase in the Force. In making this request we beg to call your atten-

tion to the fact that there has been no increase in the patrol force of this Department since June, 1911, except the increase of ten (10) Patrolmen appointed for the new Seventh Precinct. Few cities have made such wonderful progress as Newark in the last few years; the increased manufacturing and business enterprises have formed business centres requiring more police protection during the daytime, to take care of the ever-increasing traffic. The outlying or home sections of the City have grown to such an extent that insufficient police protection is now being afforded, and it is for these reasons and also that the increasing population of the City should be met with a corresponding increase in the Force that this request is made. We trust you will take this matter under consideration and grant our request, so that adequate police protection can be given all parts of the City.

Accompanying this report will be found reports of the Chief of Police, Captain of the Detective Bureau and others, containing detailed information of the work of the Department during the year.

Respectfully submitted,

JOHN BAADER, President,
LYMAN E. KANE,
PHILIP SCANLAN,
ALFRED L. DE VOE,
Board of Police Commissioners.

JOSEPH M. COX, Secretary.

THE CHANGES IN THE FORCE AND THE DEPARTMENT ARE SHOWN IN THE FOLLOWING TABLE

	Commissioners	Clerks	Surgeons	Chief	Captains	Lieutenants	Sergeants	Patrolmen	Patrol Drivers	Matrons	Assistant Matron	Total
Remaining, 1912	4	9	2	1	7	43	41	551	17	7	1	683
Appointed	5	....	....	1	4	6	12	30	....	2	1	.....
Died	1	....	....	1	....	....	....	7	....	....	....	.....
Dismissed from force	....	....	....	....	....	....	....	5	....	....	....	.....
Promoted	....	....	....	....	1	4	6	12	....	....	1	.....
Resigned	....	....	....	....	....	....	....	2	....	....	....	.....
Retired on pension	....	....	....	....	....	1	1	2	....	....	....	.....
Term expired	4	....	....	....	....	....	....	.....	....	....	....	.....
Total remaining	4	9	2	1	10	44	46	553	17	9	1	696

The Force and members of the Department are distributed for duty at Headquarters and the several Precincts throughout the City as follows:

POLICE HEADQUARTERS.

Commissioners	4
Secretary	1
Clerks, Commissioners' Office	2
Clerks, Bertillon Bureau	2
Clerk, detailed as Messenger	1
Clerk, detailed as Property Clerk	1
Clerks, detailed as Telephone Operators	2
Chief Surgeon	1
Assistant Surgeon	1
Chief	1
Captain, Detective Bureau	1
Captain, in charge of Headquarters (nights)	1
Lieutenants, Desk and Clerical Duties	4
Lieutenants, Detective Bureau	19
Sergeant	1
Patrolmen	23
Matron	1
Total	66

FIRST PRECINCT STATION HOUSE.

COURT AND WASHINGTON STREETS.

CAPTAIN, MICHAEL J. RYAN.

Captain Mounted and Motorcycle Squads,

WILLIAM H. STUCKY.

Boundaries:—On the north by New street, beginning at High street and extending east to Broad street, to Rector street, through Rector street to the Passaic River; on the east by the main line of the Pennsylvania Railroad; on the south by the City line; on the west, beginning at New street, through the middle line of High street to and through Clinton avenue to Wright street to Broad street, and thence in a straight line south to the City line.

Area in square miles—0.95.

Lineal miles of streets—34.20.

The following are assigned to this station:

Captains	2
Lieutenants	3
Sergeants	9
Patrolmen	115
Drivers	6
Matron	1
Assistant Matron	1
Total	137

SECOND PRECINCT STATION HOUSE.

Summer and Seventh Avenue.

Captain, John E. Brown.

Boundaries:—On the north by the City line; on the east by the Passaic River; on the south, beginning at the Passaic River, through the middle line of Rector street to Broad street, thence south on Broad street to New street, through New street to High street, to Warren street, through Warren street to Norfolk street, through Norfolk street and Clifton avenue to Eighth avenue, to the easterly side of the Morris Canal, and thence to the City line.

Area in square miles—3.147.

Lineal miles of streets—66.67.

The following are assigned to this Station:

Captain	1
Lieutenants	3
Sergeants	7
Patrolmen	103
Drivers	2
Matron	1
Total	117

THIRD PRECINCT STATION HOUSE.

136-142 VAN BUREN STREET.

CAPTAIN, PETER J. CHRISTIE.

Boundaries:—On the north by the Passaic River; on the east and south by the City line; on the west by the main line of the Pennsylvania Railroad.

Area in square miles—10.247, including 6.48 square miles of Meadow lands.

Lineal miles of streets—62.70.

The following are assigned to this station:

Captain	1
Lieutenants	3
Sergeants	6
Patrolmen	70
Drivers	2
Matron	1
Total	83

FOURTH PRECINCT STATION HOUSE.

SEVENTEENTH AVENUE AND LIVINGSTON STREET.

CAPTAIN, OSCAR VOGEL.

Boundaries:—On the north, beginning at South Twelfth street, thence east on Twelfth avenue and Bank street to Norfolk street, to Warren street, to High street, on the east beginning at Warren street through High street, to Clinton

avenue, to and through Avon avenue to South Tenth street; on the west through South Tenth street to South Orange avenue; thence west to South Twelfth street and through South Twelfth street to Twelfth avenue.

Area in square miles—1.686.

Lineal miles of streets—40.95.

The following are assigned to this Station:

Captain	1
Lieutenants	3
Sergeants	6
Patrolmen	82
Drivers	3
Matron	1
Total	96

FIFTH PRECINCT STATION HOUSE.

Orange and Sixth Streets.

Captain, William A. Carroll.

Boundaries:—On the south by Bank street, beginning at Norfolk street, through Bank street and Twelfth avenue to the City line; on the west by the City line; on the east and north by Norfolk street and Clifton avenue, from Bank street to Eighth avenue to the westerly side of the Morris Canal, thence along the westerly side of the Morris Canal to a point at the City line.

Aera in square miles—1.714.

Lineal miles of streets—43.52.

The following are assigned to this Station:

Captain	1
Lieutenants	3
Sergeants	7
Patrolmen	65
Drivers	2
Matron	1
Total	79

SIXTH PRECINCT STATION HOUSE.

BIGELOW AND HUNTERDON STREETS,

CAPTAIN, SAMUEL BROWN.

Boundaries:—On the north, beginning at the City line, through Avon avenue to Clinton avenue; on the east, beginning at Clinton avenue, through Wright street to Broad street, and thence in a straight line south to the City line; on the south and west by the City line.

Area in square miles—3.70.

Lineal miles of streets—69.20.

The following are assigned to this Station:

Captain	1
Lieutenants	3
Sergeants	7
Patrolmen	75
Drivers	2
Matron	1
Total	89

SEVENTH PRECINCT STATION HOUSE.

998 South Orange Avenue.

Captain, Thomas J. Corbally.

Boundaries:—On the north, beginning at the City line, through Twelfth avenue to South Twelfth street; on the east by South Twelfth street, through South Twelfth street to South Orange avenue, to South Tenth street, through South Tenth street to Avon avenue; on the south by Avon avenue, from South Tenth to South Twentieth street; on the north by the City line (including all of the annexed territory of Vailsburg).

Area in square miles—1.964.

Lineal miles of streets—43.22.

The following are assigned to this Station:

Captain	1
Lieutenants	3
Sergeants	3
Patrolmen	20
Matron	1
Total	28

During the year the Board investigated one hundred and two (102) charges against Officers of the Department for violation of the rules and regulations, and disposed of them as follows:

Case Dismissed	15
Dismissed from the Force	5

Fined	62
Fined and Warned	1
Laid over	3
Re-instated with loss of pay and fined	1
Re-instated with loss of pay, Fined and Transferred	3
Re-instated with loss of pay during suspension	1
Re-instated with loss of pay and reprimanded	1
Resignation accepted	2
Reprimanded	7
Warned	1
Total	102

List of Members of the Force Injured while in the performance of their duties during the year:

RANK.	NAME.	DATE INJURED.
Lieutenant	John Horter	January 1st
"	William J. Walzer	January 3rd
"	John W. McGeehan	January 4th
Patrolman	Michael Smith	January 16th
"	Charles R. Brown	February 2nd
"	Jacob W. Heger	February 2nd
"	William P. Colfer	February 14th
"	Joseph Lewis	February 14th
Sergeant	John E. Wright	February 15th
Patrolman	Richard J. Schott	February 18th
"	Joseph Lewis	March 1st
"	Fredreick J. Weber	March 9th
"	Andrew J. Knef	March 16th
"	Frederick C. Pickel	March 21st

Patrolman	George Burger, Jr.	April 30th
"	Matthew M. Gaynor	May 1st
"	Matthew F. Early	May 3rd
"	Edward J. Dougherty	May 8th
"	Thomas J. Downey	June 1st
Lieutenant	George P. Fohs	June 2nd
Patrolman	Richard J. Schott	June 14th
Lieutenant	George P. Fohs	June 16th
Sergeant	Michael J. Tully	June 21st
Patrolman	Walter T. Byrnes	August 4th
"	William J. Robinson	August 10th
"	Michael J. McLane	August 11th
"	Fred Rauchmiller	August 12th
"	William H. Wiedmann	August 14th
"	James F. Walsh	August 31st
"	William H. Dyer	September 1st
"	William G. Hoffman	September 2nd
"	Jacob Fine	September 10th
Sergeant	John J. Kellett	September 12th
Patrolman	William A. Moran	September 14th
"	William H. Wiedmann	October 29th
"	William M. Provost	November 9th
"	Francis A. Cleveland	November 13th
"	Harry R. Jewell	November 14th
"	Michael E. Walsh	November 16th
"	John Vance	November 17th
"	Joseph B. Brady	December 1st
"	Frederick C. Pickel	December 12th
"	Charles H. Stollberg	December 16th
"	William J. Klueber	December 20th
"	Thomas McEntyre	December 21st

FINANCIAL STATEMENT.

RECEIPTS.

Appropriation by Tax Ordinance	$810,000.00
Appropriation by Tax Ordin'ce (supplemental)	150,000.00
Appropriation from Contingent Fund	301.50
Refund on cancellation of Insurance Policy on old Sixth Precinct, contents and signal desk.	6.80
Refund on cancellation of Insurance Policy on Headquarter's Automobile	60.55
L. R. Davis, payment of damage to Officer Drastal's Motorcycle	51.82
Travelers Indemnity Co., payment of damage to Officer Frank's Motorcycle	55.14
Commercial Casualty Insurance Co., payment of damage to Headquarter's Automobile	11.00
Commercial Casualty Insurance Co., payment of Damage to Headquarter's Automobile	82.82
Refund Patrolman Anthony F. Johnson	9.31
Refund Patrolman Charles P. Thelan	25.95
Public Service Corporation, payment of damage to Second Precinct Patrol Wagon	125.00
A. M. Metendorf, payment of damage to Officer Reilly's Motorcycle	7.50
Photos furnished U. S. Government	4.00
	$960,741.39

DISBURSEMENTS.

Salaries	$907,233.48
Incidentals (Chief of Police)	1,563.15
Lighting (Electric and Gas)	3,645.88
Fuel	2,427.20

Stationery and Printing (Department and Criminal Courts)	2,245.34
Telephone and Toll Service	1,374.21
Maintenance Police Signal System (Contract)	6,058.00
Maintenance Police Signal System (new signal boxes)	1,200.00
Maintenance Police Signal System (Polarized bells for signal boxes)	120.65
Maintenance Police Signal System (extensions and replacing cable)	1,929.01
Stable Supplies (Forage)	3,403.85
Horseshoeing	1,942.33
Veterinary services and medicines	324.75
Pasture of horses	30.00
Repairs, wagons and harness	692.73
New harness, saddles, etc	359.66
New Motorcycles	1,800.00
New Motorcycle Horns, Speedometers and Prest-o-Lite Tanks	336.00
Repairs and supplies for Motorcycles	610.80
New Bicycles and equipments	250.00
New Bicycle Tires	10.50
Auto Combination Patrol and Ambulance Wagons (2)	5,750.00
One Second-Hand Automobile	400.00
Repairs and Supplies, Auto Wagons	4,819.15
Gasoline	947.35
Advertising	90.72
One Saddle Horse	300.00
Repairs, plumbing	1,308.31
Repairs, carpenter	825.53
Repairs, painting	1,107.75
Repairs, mason	42.60
Repairs, electric	133.05
Repairs, iron work	198.19

Furniture and repairs, bedding, etc.	615.26
City Directories (7)	42.00
Disinfectant	1,062.50
New badges, hat pieces and repairs	94.90
Meals for prisoners	1,538.40
Ice	228.40
Draping Stations	204.00
Dues, National Bureau of Identification	25.00
Expenses to Convention (Chiefs of Police)	350.00
Rent Seventh Precinct Station (3 months)	150.00
New Typewriting Machines	190.75
Rent of Time Service Clocks	60.00
Automobile hire	88.00
Supplies, Bertillon Bureau	258.46
General Supplies for stations and criminal courts	1,646.20
New steel filing cases	149.60
Traffic Signs and repairs	134.25
Tungsten Lamps	378.30
Miscellaneous expenses	45.18
	$960,741.39

Table Showing Length of Service of the Members of the Force at the Time the Department was Placed Under Control of the Board of Police Commissioners, and at the End of Each Succeeding Year.

DATE	Und'r 1 year	1 year and under 2	2 years and under 3	3 years and under 4	4 years and under 5	5 years and under 10	10 years and under 15	15 years and under 20	20 years and under 25	25 years and under 30	30 years and under 35	35 years and under 40	40 years and under 45	Totals
February 1, 1886	47	19	11	7	9	42	32	9	....	....	....	....	....	176
December 31, 1886	26	45	15	11	7	34	39	10	1	....	....	....	....	188
December 31, 1887	14	26	39	15	12	33	36	21	1	....	....	....	....	197
December 31, 1888	8	11	26	37	15	35	40	22	3	....	....	....	....	197
December 31, 1889	34	11	10	25	37	42	39	26	6	....	....	....	....	230
December 31, 1890	22	34	9	10	23	69	35	30	10	....	....	....	....	242
December 31, 1891	19	21	29	9	9	83	28	38	10	1	....	....	....	247
December 31, 1892	25	19	20	26	9	83	24	35	21	1	....	....	....	263
December 31, 1893	36	23	15	20	26	81	28	25	20	3	....	....	....	287
December 31, 1894	27	35	21	15	16	91	34	35	22	5	....	....	....	301
December 31, 1895	21	26	35	20	13	73	54	33	21	7	....	....	....	303
December 31, 1896	20	18	24	33	19	60	71	27	27	7	1	....	....	307
December 31, 1897	17	19	16	22	33	72	70	21	28	15	1	....	....	314
December 31, 1898	....	17	19	16	21	97	68	23	28	15	1	....	....	305
December 31, 1899	59	....	17	19	15	93	76	29	29	15	4	....	....	356

Table Showing Length of Service of the Members of the Force at the Time the Department was Placed under Control of the Board of Police Commissioners, and at the End of Each Succeeding Year.—*Continued.*

DATE	Und'r 1 year	1 year and under 2	2 years and under 3	3 years and under 4	4 years and under 5	5 years and under 10	10 years and under 15	15 years and under 20	20 years and under 25	25 years and under 30	30 years and under 35	35 years and under 40	40 years and under 45	Totals
December 31, 1900	16	57	....	17	19	93	66	41	28	16	7	....	....	360
December 31, 1901	13	18	57	....	17	100	52	60	25	21	5	1	....	369
December 31, 1902	31	15	18	56	1	99	65	59	20	25	11	....	....	400
December 31, 1903	44	32	15	17	56	69	83	59	16	22	11	....	....	424
December 31, 1904	20	42	28	15	18	101	82	63	21	23	11	....	....	424
December 31, 1905	46	17	42	25	14	97	83	54	30	15	11	2	....	436
December 31, 1906	55	49	19	38	24	88	85	45	42	14	11	2	....	463
December 31, 1907	79	52	39	21	35	98	80	54	45	11	11	5	....	530
December 31, 1908	58	76	52	44	17	134	55	70	44	11	9	8	....	581
December 31, 1909	15	60	74	53	43	102	81	78	48	14	8	4	....	580
December 31, 1910	27	15	57	72	69	119	85	70	39	24	6	4	....	587
December 31, 1911	62	28	15	57	68	170	80	75	34	32	8	4	1	634
December 31, 1912	23	64	24	15	14	213	86	77	43	31	9	2	2	643
December 31, 1913	37	22	60	25	15	221	119	53	58	29	6	6	3	654

NAME	Rank when Retired	Age when Retired	Length of Service	Amount of Pension	Date Retired
Alfred C. Westerman	Patrolman	44 years	16 years	$ 1.50 per day	May 1, 1903
Christian Ross	"	66 "	22 "	1.50 " "	Aug. 1, 1903
Patrick Gilroy	"	63 "	20 "	1.50 " "	Aug. 1, 1903
Anthony Danneberger	"	67 "	32 "	1.50 " "	Feb. 1, 1904
Philip Fine	Sergeant	71 "	28 "	54.16 " month	Feb. 1, 1905
*Bernard Donnelly	Patrolman	70 "	28 "	1.50 " day	Feb. 1, 1905
Jacob L. Staats	"	71 "	28 "	1.50 " "	Feb. 1, 1905
Henry Hopper	Chief	61 "	26 "	125.00 " month	May 1, 1905
Jacob A. Moffitt	Patrolman	63 "	20 "	1.50 " day	July 1, 1905
Christian Ziegerer	"	69 "	32 "	1.50 " "	Dec. 1, 1905
Frederick Groessle	"	67 "	29 "	1.50 " "	Oct. 1, 1906
Charles T. Harrison	"	68 "	22 "	1.50 " "	Oct. 1, 1906
George Lambert	"	70 "	34 "	1.50 " "	Oct. 1, 1906
John Lambert	"	60 "	26 "	50.00 " month	May 1, 1907
John O'Loughlin	"	38 "	9 "	50.00 " "	Aug. 17, 1908
Mary Emma Gibney, widow of Frank J. Gibney	"	37 "	9 "	54.16 " "	Aug. 21, 1908
Nora M. Sugrue, widow of Daniel F. Sugrue	"	38 "	11 "	54.16 " "	Sept. 24, 1908
John E. Gould	"	60 "	31 "	54.16 " "	Nov. 16, 1908
†John H. Ubhaus	Captain	66 "	37 "	100.00 " "	May 1, 1909
James H. Bruen	Patrolman	66 "	25 "	54.16 " "	May 1, 1909
James Burke	"	62 "	32 "	54.16 " "	Oct. 1, 1909
Samuel S. Force	"	67 "	35 "	54.16 " "	Oct. 1, 1909
Frederick Axt	"	62 "	39 "	54.16 " "	Oct. 1, 1909
Michael J. Early	"	71 "	30 "	54.16 " "	Feb. 1, 1910

PENSION ROSTER—*Continued.*

NAME	Rank when Retired	Age when Retired	Length of Service	Amount of Pension	Date Retired
John A. Reitz	"	30 "	4 "	54.16 " "	Mar. 1, 1910
Edward Golden	"	50 "	20 "	54.16 " "	Mar. 1, 1910
George Huff	"	55 "	26 "	54.16 " "	Mar. 1, 1910
Bernard J. McManus	"	45 "	18 "	54.16 " "	May 1, 1910
Theodore C. Bauer	"	50 "	24 "	54.16 " "	Jan. 1, 1911
Henry Horter	"	60 "	35 "	54.16 " "	Mar. 1, 1911
Thomas H. Healy	Roundsman	50 "	21 "	62.91 " "	Mar. 1, 1911
Henry Viet	Patrol Driver	50 "	20 "	42.50 " "	April 1, 1911
John Kress	Patrolman	59 "	27 "	54.16 " "	Aug. 15, 1911
William H. Templeton	Sergeant	51 "	23 "	70.83 " "	Sept. 1, 1911
Charles Fessler	Roundsman	54 "	25 "	62.91 " "	Nov. 1, 1911
Thomas E. Campbell	Patrolman	63 "	25 "	54.16 " "	Dec. 1, 1911
Bernard J. Scanlon	"	50 "	26 "	54.16 " "	Jan. 1, 1912
Edward J. Hannan	"	38 "	9 "	54.16 " "	May 1, 1912
Joseph Sweeney	"	59 "	29 "	54.16 " "	Aug. 1, 1912
John Steeb	"	52 "	20 "	54.16 " "	Sept. 1, 1912
Christina Gaffney, Widow of John J. Gaffney	"	38 "	5 "	54.16 " "	Dec. 8, 1912
John F. Cosgrove	Lieutenant	58 "	36 "	70.83 " "	Jan. 16, 1913
John W. Prest	Patrolman	52 "	21 "	54.16 " "	April 1, 1913
Lucy M. Corbitt, widow of Michael Corbitt	Chief	71 "	30 "	125.00 " "	June 1, 1913
John Bohnert	Patrolman	60 "	24 "	54.16 " "	Nov. 1, 1913
PENSIONED BY THE CITY UNDER "VETERAN ACT."					
Alfred C. Dowling	Sergeant	72 years	37 years	$66.66 per month	May 16, 1910
Jacob S. Lunger	"	67 "	27 "	62.91 " "	May 16, 1913

* Died May 9, 1913.
† Died November 10, 1913.

ANNUAL REPORT

OF THE

CHIEF OF POLICE

ANNUAL REPORT

OF THE

CHIEF OF POLICE

OFFICE OF CHIEF OF POLICE,

POLICE HEADQUARTERS,

NEWARK, N. J., January 1, 1914.

To the Honorable Board of Police Commissioners of the City of Newark, N. J.

GENTLEMEN:—As Chief of Police I herewith submit the annual report for the year 1913 of the conditions and operations of the Department under your control, of which I assumed executive charge October 3, 1913.

At the close of the year the personnel of the Force consisted of Six Hundred and Fifty-four (654) Officers and Patrolmen, as follows:

Chief	1
Captains	10
Lieutenants	44
Sergeants	46
Patrolmen	553

The following vacancies occurred in the Force:

Died	8
Dismissed	5
Pensioned and Retired	4
Resigned	2
Total	19

Nine Thousand Seven Hundred and Ninety-seven (9.797) arrests for violations of laws and ordinances were made by the members of the Force assigned to the various Precincts (arrests effected by the Detective Bureau not included, being contained in a separate report). This is an increase of Five Hundred and Sixty-three (563) arrests over the number made in 1912.

As is to be expected each year in a City made up of a cosmopolitan population such as ours, difficulties are certain to arise more or less frequently between workers and employers. All such occurrences during the year were settled without seriously affecting the general peace of the community, with the exception of the strike among the numerous workers in the tailoring trade, especially in the "Hill" section of the city. Clashes between police and strikers were quite numerous, charges and counter-charges being made, but after several interviews between strikers and their representatives, your Honorable Body, His Honor, the Mayor, and the employers, matters were adjusted without great harm to those involved. However, strike times are trying times to the police officer assigned to strike duty, to the workers and employers involved and to the public in general None but those actively interested can appreciate the difficulties which beset an officer during such a period—if he performs his duty it seems to the striker like added

persecution, and such a person not being in his usual peaceful mood is unable to understand the officer's attitude; on the other hand, if the strikers are not kept away from the establishment from which they have gone out on strike, the employer feels he is not receiving the protection to which he is entitled. All of which leads to the natural conclusion that when a strike is settled without harmful results to those involved, they and the citizens are to be congratulated, the police more so than all of the others because of the fact that they are expected to calmly bear the burdens of all as well as their own. This is not intended to be in the nature of self-praise for myself or the Force I represent, but merely as an explanation to the community in which we are all interested that a police officer should occasionally, at least, be considered "human"—like themselves.

Mounted and Motorcycle Squads.

These important branches of police service are now under the command of a Captain of Police, recently assigned in charge of both Squads.

Two Sergeants and twenty-five Patrolmen make up the Mounted Squad and twelve Patrolmen are assigned to duty on motorcycles.

The duties of the Mounted Officers at times of parades or large demonstrations on the streets of the City, handling traffic along the main thoroughfares during the winter months and at other times when necessity requires and their usefulness in patrolling the outlying districts, continues to be satisfactorily performed.

To meet the ever-increasing motor vehicle traffic it has been necessary for the Motorcycle Patrolmen to perform duty on the numerous avenues of the City where such

traffic is heavy, and requires attention both day and night. These Officers have performed excellent service in this respect.

While on the subject of these Squads I feel it my duty to call your especialy attention to the necessity for an assignment of at least six Patrolmen to each of the Squads, in addition to those already assigned thereto.

Bicycle Squad.

This Squad is now comprised of one Sergeant and nine Patrolmen. Their principal duty is in looking after dwellings and other buildings temporarily unoccupied or vacant, which is an important part of our work and has been faithfully performed.

Mendicant Squad.

Special mention is due to the members of this Squad for the manner in which they have performed their work during the year, and the results obtained. Merchants, business and professional men in general, charitable organizations, all unite in complimenting this Department for the services rendered through this Squad.

Condition of Property.

Six automobile combination patrol and ambulance wagons, all in good condition, are in service. That these machines are absolutely necessary for efficient police service is an established fact, and such a wagon should also be procured for the newly opened Seventh Precinct, where a horse-drawn vehicle is being used.

The two five-passenger touring cars belonging to the Department should be sold while it is possible to realize a fair price for them, and re-placed by new cars. The

car purchased as an emergency car should be replaced by a lighter machine of less horse-power, which would not be so expensive to maintain and would prove more serviceable, being used only for local runs.

One prison van, one patrol wagon and one phaeton, all in first-class condition, and four patrol wagons in poor condition, complete the number of vehicles owned by our Department.

Twenty-eight saddle horses, three wagon horses and one horse broken to both saddle and harness, nearly all in the best working condition, with complete equipment for all, make up part of the Department property.

The twelve motorcycles owned by the Department are in fair condition, but for the safety of the officers required to ride same and for efficiency, I respectfully recommend that they be disposed of and replaced by new machines.

Our bicycles are in fairly good condition and can be used during the coming season; not being expensive, they can be replaced easily as necessity requires.

Quarters.

The Precinct Station Houses are all in good condition and properly kept.

The temporary quarters of the Seventh Precinct should be replaced by a new and up-to-date building as quickly as possible, and a new building for Police Headquarters should also be provided at an early date. I respectfully request that you advocate these new buildings before the Finance and Building Committees of the Common Council. The space allotted our Department in the City Hall is entirely too small, and, in my opinion, can never be increased in a manner which will facilitate the transac-

tion of our business. I believe the sleeping rooms for the men on reserve duty to be unsanitary; they are on the ground floor, really below the surrounding ground; sun-light never gets into them and they cannot be properly ventilated. The cell-room, containing six cells with a toilet in each, is in the basement under our rooms; it is difficult to keep same in proper condition and must be strongly disinfected at all times to prevent it becoming an annoyance throughout the entire building; cells should always be above the level of the ground where possible; they should be on the top floor of a building. In regard to the sleeping rooms and Assembly room for the men at the Seventh Precinct, also on the first floor, the same reasons as above stated can be given for urging a new building.

An addition to the Third Precinct is necessary to provide room for the proper transaction of business, the Court Room and Assembly Room being entirely too small.

General Recommendations.

1. An increase in the Force by the appointment of at least one hundred (100) Patrolmen.

2. Establishment of a new Precinct in the northern end of the City, dividing the Second Precinct.

3. The equipment of the drill-room in each Precinct with gymnastic apparatus and the appointment of an instructor in physical culture, the officers to be required to report for instruction and exercise regularly.

4. That our automobile patrol and ambulance wagons be equipped with screw-jacks of sufficient power to raise

heavy weights—trolley cars, trucks, etc.—which, at times, would prove invaluable in cases of accident.

5. Placing of a series of iron sockets along the curb lines of Broad and Market streets, for the purpose of holding iron standards for the support of a rope or cable to be stretched along those streets on occasions of parades or other public demonsstrations; this would enable the officers to better handle the spectators, insure easier and quicker progress of the participants and traffic on both streets would not be so seriously affected as it is at such times. When not actually needed the standards could be removed and the sockets covered with a cap.

Excellent Police Signal System service continued during the year under the management of Mr. W. A. Eager, who is again complimented.

An expression of appreciation is due Judges Simon Hahn and Charles F. Herr, of the Criminal Courts, for their co-operation with this Department in its work.

Drs. J. Henry Clark and A. J. Mitchell, our Surgeons, and Sergeant James D. Fitch, detailed as Instructor, have given the usual prompt and satisfactory attention to their duties.

The Chaplains of our Department, Rev. Edward F. Quirk and Rev. Edmund A. Wasson, have done good work amongst us. They have favorably affected the morale of those with whom they have come in contact, their work is understood and appreciated and they are personally respected and liked by the entire Department.

To those men of the rank and file of the Department who have willingly and honestly performed their duty throughout the year—and they are the great majority—I

extend a word of compliment and encouragement for them to so continue. Good work well done, although the worker be not noted or named, nevertheless carries with it that satisfaction known only by one who knows his duty and endeavors to perform it.

To His Honor, the Mayor, and your Honorable Body, I am grateful for many courtesies and the co-operation which has better enabled me to perform the many duties of my office.

Respectfully submitted,

MICHAEL F. LONG,

Chief of Police.

JAMES BYRNE

FIRST POLICE PRECINCT

Died January 8, 1913.

WILLIAM M. DUNN

SECOND POLICE PRECINCT

Died January 31, 1913.

MICHAEL J. CORBALLY

SIXTH POLICE PRECINCT

Died March 4, 1913.

PETER V. FLYNN

SECOND POLICE PRECINCT.

Died March 19, 1913.

JOHN T. EARLY

FIRST POLICE PRECINCT

Died March 26, 1913.

JOHN RYAN

SECOND POLICE PRECINCT

Died May 27, 1913.

MICHAEL CORBITT

CHIEF OF POLICE

Died May 30, 1913.

IN THE PERFORMANCE OF DUTY

JOHN T. McDONALD

SECOND POLICE PRECINCT

Died July 12, 1913.

STATISTICS

DISORDERLY PERSONS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Abandonment	16	19	21	17	12	15	18	14	7	10	12	9	170
Bawdy house proprietor, male	2	4	1	1	.....	1	4	2	2	6	2	1	26
Bawdy house proprietor, female	1	3	3	3	6	3	3	2	2	6	2	3	37
Bawdy house inmates, male	2	2	5	4	9	5	11	6	3	6	7	2	62
Bawdy house inmates, female	4	5	6	5	6	3	6	2	1	6	4	3	51
Begging	27	44	51	70	59	33	44	38	38	52	57	67	580
Common drunkard	.....	1	2	1	3	2	5	3	.....	2	1	1	21
Common night walker	4	9	9	5	5	2	.....	3	.....	.....	1	.....	38
Common prostitute	.....	1	2	2	.....	.....	1	.....	.....	1	.....	1	8
Disturbance by noisy conduct	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	7
Gambling house proprietor	.....	1	.....	.....	1	.....	4	1	.....	.....	2	.....	9
Gambling house witness	.....	5	.....	.....	4	.....	.....	2	.....	.....	10	.....	21
Having burglar tools in possession	.....	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....	3
Having dangerous or offensive weapons in possession	5	1	6	9	4	3	10	3	10	6	12	3	72
Having dangerous of offensive weapons in possession with intent to assault	2	6	3	2	9	4	4	2	4	2	4	4	46
Loitering under influence of liquor	179	136	175	160	169	146	132	155	133	164	131	170	1,850
Loitering or interfering with persons on the street	161	112	171	145	188	185	184	169	163	167	124	124	1,893
Trespassing on railroad cars or property	.....	4	.....	.....	.....	3	3	12	10	2	1	6	41
Vagrancy	4	4	9	6	3	3	3	.....	2	2	3	8	47

MONTHLY CLASSIFICATION OF CRIMES AND OFFENSES—*Continued.*

MISDEMEANORS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Adultery	.....	.....	.....	.....	2	.....	.....	2	.....	2	.....	2	8
Assault	3	1	.....	2	.....	2	1	.....	5	1	.....	.....	15
Assault and battery	58	58	56	50	80	71	63	86	63	58	52	72	767
Attempt at illegal voting	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Attempt at larceny from the person	.....	.....	2	.....	.....	2	4	.....	.....	.....	.....	.....	8
Attempt at suicide	1	5	.....	3	3	3	2	3	2	5	3	3	33
Cocaine, morphine, etc. (selling or having in possession)	1	.....	.....	.....	.....	.....	1	.....	.....	1	.....	2	5
Cruelty to animals	1	1	2	.....	1	3	.....	2	1	3	.....	3	17
Escaped prisoners	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	2
False fire alarms	1	.....	2	.....	.....	1	2	2	.....	.....	1	2	11
False pretences	4	.....	1	1	.....	2	3	2	3	1	.....	4	21
Fornication	2	.....	4	1	2	3	4	3	2	2	2	5	30
Fraud	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Gambling	2	.....	2	3	.....	2	26	1	.....	1	.....	2	39
Interfering with an officer	10	5	7	.....	3	3	2	1	6	3	1	6	47
Impersonating an officer	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Indecent assault	.....	.....	.....	.....	.....	.....	.....	.....	1	4	1	1	7
Indecent exposure	2	2	2	2	1	1	2	2	.....	4	2	3	23
Indecent pictures in possession	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Larceny from the person	10	3	7	6	6	11	8	2	3	6	2	6	70
Lewdness	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Malicious mischief	4	1	13	9	3	3	6	3	6	3	5	6	62

MONTHLY CLASSIFICATION OF CRIMES AND OFFENSES—*Continued.*

MISDEMEANORS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Passing worthless checks	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Petty larceny (under $20)	28	16	24	23	26	12	22	23	23	21	28	20	266
Petty larceny and receiving	.....	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	.....	8
Rioting	1	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
Seduction (of girl unmarried and under sixteen years of age)	3	.....	.....	1	.....	.....	2	.....	.....	.....	.....	1	7
Threatening	4	4	8	4	3	5	2	2	2	2	4	3	43
Unlawful practice of midwifery	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2
Using employer's automobile without permission	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	2
HIGH MISDEMEANORS													
Abduction	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Abuse of infants	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Arson	.....	.....	2	.....	.....	1	1	1	.....	.....	.....	.....	5
Assault with intent to kill	.....	.....	.....	1	.....	.....	1	.....	.....	1	.....	1	4
Assault and battery with intent to kill	.....	2	.....	.....	2	1	.....	.....	1	.....	.....	1	7
Assault and battery with intent to disfigure	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Assault and battery with intent to rape	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	2
Assault and highway robbery	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Assault and battery and grand larceny	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1

MONTHLY CLASSIFICATION OF CRIMES AND OFFENSES—*Continued.*

HIGH MISDEMEANORS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Atrocious assault and battery	3	2	2	3	2	5	5	7	5	5	5	2	46
Atrocious assault and battery and larceny from the person	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
Attempt at arson	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2
Attempt at burglary	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Attempt at passing counterfeit money	1	2	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	4
Attempt at grand larceny	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	2
Attempt at highway robbery	1	.....	.....	4	1	.....	.....	.....	.....	.....	.....	.....	6
Attempt at rape	.....	.....	1	1	1	1	1	1	.....	.....	.....	1	7
Attempt at robbery	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Breaking, entering and stealing (by day)	10	7	5	2	14	3	5	5	4	4	2	4	65
Breaking and entering with intent to steal	.....	7	.....	4	.....	.....	1	4	1	3	2	2	24
Breaking and entering	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Burglary (by night)	3	2	2	5	2	1	4	3	3	7	3	6	41
Breaking, entering, larceny and receiving	1	.....	7	3	.....	.....	.....	5	5	3	.....	3	27
Bribery	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Entering, larceny and receiving	3	.....	1	.....	.....	.....	4	.....	2	2	.....	2	14
Embezzlement	3	3	1	1	2	3	.....	3	2	1	2	.....	21
Entering and stealing (by day)	2	7	2	2	.....	9	4	3	1	6	2	5	43
Entering with intent to steal	4	.....	8	.....	3	8	5	7	3	.....	2	.....	40
Forgery and uttering	2	.....	.....	.....	.....	.....	.....	1	.....	1	1	.....	5
Grand larceny	8	4	4	3	7	3	9	6	10	4	9	6	73
Grand larceny and receiving	.....	.....	1	.....	1	1	.....	4	.....	.....	.....	1	8

MONTHLY CLASSIFICATION OF CRIMES AND OFFENSES—*Continued.*

HIGH MISDEMEANORS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Highway robbery	.....	1	4	2	2	.....	.....	.....	1	.....	.....	1	11
Manslaughter	3	2	1	1	4	2	1	2	4	5	5	3	33
Mayhem	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Murder	.....	1	1	3	2	2	3	1	.....	1	1	1	16
Rape	.....	.....	.....	.....	4	1	.....	.....	1	.....	.....	2	8
Receiving	.....	4	7	.....	.....	.....	.....	.....	2	1	.....	.....	14
Seduction (by married man under promise of marriage)	.....	.....	.....	.....	2	.....	.....	.....	.....	1	.....	.....	3
Seduction (by single man under promise of marriage)	.....	.....	2	1	.....	1	1	1	2	.....	.....	2	10
Sodomy	.....	.....	.....	.....	1	2	2	3	.....	.....	.....	1	9
White slavery	.....	.....	.....	.....	1	1	.....	.....	1	.....	.....	2	5
MISCELLANEOUS													
Bastardy	6	2	.....	4	4	5	7	7	3	.....	1	2	41
Breach of the peace	.....	.....	3	.....	.....	.....	.....	.....	2	3	1	.....	9
Contempt of court	1	2	1	1	3	3	1	.....	.....	.....	.....	2	14
Demented	5	2	8	2	3	4	3	4	5	6	5	6	53
Desertion	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Deserter from U. S. N.	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Fugitive from justice	4	.....	2	.....	2	.....	.....	.....	1	1	2	1	13
Incorrigible	1	.....	4	6	1	3	.....	2	1	1	5	2	26

MONTHLY CLASSIFICATION OF CRIMES AND OFFENSES—*Continued.*

MISCELLANEOUS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Insanity	1	2	.....	2	2	1	1	.....	2	.....	.....	1	12
Juvenile offenders	10	12	16	18	6	21	5	5	8	9	14	1	125
Runaway juveniles	4	1	7	9	3	6	4	7	8	7	.....	3	59
Safekeeping	2	4	2	1	2	1	2	1	.....	5	2	3	25
Suspicion	20	11	28	17	19	18	15	14	18	11	18	12	201
Selling weapons to minors	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Violation of automobile laws	1	17	13	10	9	34	21	15	24	35	16	41	236
Violation of bottlers' law	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	3
Violation of compulsory education law	4	1	1	4	3	2	.....	.....	.....	.....	6	1	22
Violation of excise law	.....	.....	.....	1	4	2	1	3	.....	2	16	4	33
Violation of election law	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2
Violation of fire code ordinance	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Violation of health law	.....	.....	.....	.....	.....	.....	.....	1	.....	4	.....	.....	5
Violation of motorcycle ordinance	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	6
Violation of park commission law	.....	.....	1	1	2	7	4	1	.....	1	.....	.....	17
Violation of probation law	.....	.....	.....	.....	3	2	1	.....	2	2	1	2	13
Violation of shade tree law	3	.....	.....	2	.....	2	.....	.....	.....	.....	.....	1	8
Violation of U. S. immigrant law	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Violation of U. S. revenue law	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Violation of City ordinance (building)	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Violation of city ordinance (expectorat'g)	3	2	5	.....	.....	2	.....	.....	.....	.....	.....	1	13
Violation of city ordinance (noise)	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	2

MONTHLY CLASSIFICATION OF CRIMES AND OFFENSES—*Continued.*

MISCELLANEOUS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Violation of city ordinance (reckless driving)	1	.....	.....	2	.....	3	1	.....	.....	1	4	4	16
Violation of city ordinance (traffic)	7	2	6	8	8	12	3	8	4	5	7	16	86
Violation of city ordinance (miscellane's)	67	79	68	75	68	104	66	84	80	80	99	130	1,000
Violation of federal laws	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Witnesses	29	34	42	36	74	46	73	69	40	62	87	101	693
Totals	759	676	854	783	880	860	844	834	751	833	797	926	9,797

DISPOSITIONS OF PRISONERS, CLASSIFIED MONTHLY.

DISPOSITIONS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Bailed	20	13	10	11	24	32	28	20	13	13	23	12	219
Committed to Alms House	.....	.....	.....	1	1	1	2	.....	2	.....	.....	1	8
Committed to City Home	.....	1	.....	1	1	2	2	2	3	.....	.....	.....	12
Committed to City Hospital	6	9	10	5	8	8	5	7	10	6	9	12	95
Committed in default of bond to keep the peace	.....	1	1	1	1	.....	.....	1	.....	.....	.....	.....	5
Committed in default of fine	95	101	125	115	103	95	130	90	82	92	69	76	1,173
Committed to Essex County Hospital for the Insane	1	.....	.....	1	.....	.....	.....	1	.....	3	.....	2	8
Committed for further examination	10	.....	.....	.....	.....	1	2	5	1	.....	7	.....	26
Committed for grand jury	82	69	95	73	113	68	118	98	96	105	90	148	1,155
Committed to House of Detention	31	18	59	58	29	44	31	49	29	47	49	19	463
Committed to House of Good Shepherd	.....	1	.....	.....	.....	.....	1	1	2	1	1	.....	7
Committed for Juvenile Court	2	.....	.....	1	13	4	3	.....	.....	.....	1	.....	24
Committed for trial	1	2	2	1	5	9	15	9	5	.....	9	.....	58
Committed as witness	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6
Committed for 12 months	4	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	6
Committed for 6 months	3	1	.....	.....	1	.....	1	.....	2	.....	.....	7	15
Committed for 3 months	1	.....	9	11	5	6	3	6	7	7	5	.....	60
Committed for 180 days	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	2
Committed for 120 days	1	.....	.....	.....	2	.....	.....	.....	.....	.....	1	.....	4
Committed for 90 days	1	3	4	14	7	1	1	8	7	5	25	18	94
Committed for 60 days	1	4	6	4	8	6	8	13	9	8	19	11	97

DISPOSITIONS OF PRISONERS, CLASSIFIED MONTHLY—*Continued.*

DISPOSITIONS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Committed for 50 days	3	1	3	3	12	6	1	.....	3	.....	1	3	36
Committed for 40 days	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	1	.....	3
Committed for 30 days	15	23	13	22	31	20	11	27	22	18	22	21	245
Committed for 25 days	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Committed for 20 days	11	13	8	13	8	17	15	7	7	14	8	15	136
Committed for 15 days	.....	.....	.....	.....	1	.....	.....	1	1	13	2	3	21
Committed for 10 days or less	6	8	19	18	10	29	13	23	20	3	14	23	186
Discharged	198	176	210	167	183	201	184	176	192	199	169	281	2,336
Paid fines	83	70	67	76	93	81	112	109	92	86	78	92	1,039
Paroled for Grand Jury (trial, etc.)	62	60	64	59	107	97	60	84	48	72	109	79	901
Paroled for Juvenile Court	4	.....	13	3	1	2	1	5	.....	8	1	2	40
Sentence suspended	84	65	109	85	61	77	66	60	57	108	56	73	901
Sent to Police Headquarters	.....	.....	.....	1	1	1	.....	.....	3	.....	.....	1	7
Sent to First Precinct	3	.....	3	1	2	2	3	1	.....	.....	2	.....	17
Sent to Second Precinct	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	3
Sent to Third Precinct	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	2
Sent to Fourth Precinct	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	1	.....	3
Turned over to Boonton Police	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	2
Turned over to Bloomfield Police	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2
Turned over to Catholic Children's Aid Society	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2
Turned over to Catholic Protectory (Kearny)	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1

DISPOSITION OF PRISONERS' CLASSIFIED MONTHLY—*Continued.*

DISPOSITIONS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Turned over to Children's Home (Montclair)	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Turned over to City Hospital (patient)	.....	.....	.....	.....	.....	.....	.....	2	4	.....	.....	.....	6
Turned over to East Orange Police	.....	1	1	.....	1	.....	.....	1	.....	.....	.....	.....	4
Turned over to Elizabeth Police	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Turned over to Harrison Police	2	.....	.....	.....	.....	.....	.....	.....	2	.....	1	.....	5
Turned over to Hilton Police	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Turned over to Irvington Police	.....	.....	.....	.....	.....	1	.....	.....	1	.....	1	.....	3
Turned over to Jamesburg Reformatory	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2
Turned over to Jersey City Police	.....	1	.....	2	.....	.....	1	.....	.....	.....	.....	.....	4
Turned over to Jewish Home	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Turned over to Kearny Police	1	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	1	7
Turned over to Middlesex County authorities	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Turned over to Maplewood Police	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Turned over to Morristown Police	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Turned over to Montclair Police	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2
Turned over to New York Police	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Turned over to Orange Police	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2
Turned over to parents or guardian	4	4	.....	.....	.....	.....	1	1	.....	.....	.....	1	11
Turned over to Penitentiary (escaped prisoner)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Turned over to Passaic Police	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1

DISPOSITION OF PRISONERS' CLASSIFIED MONTHLY—*Continued.*

DISPOSITIONS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Turned over to Plainfield Police	.....	.....	1	.....	.....	3	.....	.....	.....	.....	.....	.....	4
Turned over to Philadelphia, Pa., Police	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	2
Turned over to Probation Officer	16	21	11	23	33	32	19	16	22	15	18	19	245
Turned over to Prosecutor	2	2	8	4	7	8	2	2	3	3	3	1	45
Turned over to Rahway Reformatory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Turned over to South Orange Police	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	2
Turned over to St. Mary's Orphan Asylum (South Orange)	.....	.....	2	.....	.....	.....	1	.....	.....	.....	.....	.....	3
Turned over to U. S. Government Officers	.....	.....	1	1	3	.....	.....	.....	1	1	.....	.....	7
Turned over to U. S. Navy	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Turned over to Union County Prosecutor	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Turned over to York, Pa., Police	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Turned over to Vineland Home	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Turned over to Woodbridge Police	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Died	.....	1	.....	.....	.....	.....	.....	.....	.....	1	1	.....	3
Totals	759	676	854	783	880	860	844	834	751	833	797	926	9,797

AGES OF PRISONERS, CLASSIFIED MONTHLY.

AGES	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Sixteen years and under (boys)	53	27	80	65	66	79	47	58	40	52	49	28	644
Sixteen years and under (girls)	2	3	8	3	4	5	1	4	1	8	3	1	43
Between 16 and 21 years (boys)	82	64	65	91	84	88	105	120	103	78	80	105	1,065
Between 16 and 21 years (girls)	14	8	8	7	11	4	8	8	5	10	6	8	97
Between 21 and 31 years	243	214	267	220	280	290	275	265	244	295	258	352	3,203
Between 31 and 41 years	179	148	201	162	184	183	205	180	163	157	179	181	2,122
Between 41 and 51 years	113	128	129	120	135	124	121	109	96	123	121	146	1,465
Between 51 and 61 years	44	59	71	73	69	62	49	67	69	73	75	72	783
Between 61 and 71 years	24	21	20	29	33	19	26	18	23	29	25	27	294
Between 71 and 81 years	4	4	5	11	14	6	7	5	7	5	1	5	74
Between 81 and 91 years	1	.....	.....	2	.....	.....	.....	.....	.....	3	.....	1	7
Totals	759	676	854	783	880	860	844	834	751	833	797	926	9,797

NATIVITY OF PRISONERS, CLASSIFIED MONTHLY.

NATIVITY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Arabia	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Armenia	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	1	5
Austria	17	20	31	18	14	24	29	35	29	17	27	30	291
Bohemia	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Brazil	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Canada	.....	1	1	3	4	.....	7	.....	3	1	.....	3	23
China	.....	.....	.....	1	.....	.....	.....	1	.....	.....	12	2	16
Denmark	1	1	2	.....	.....	1	.....	1	.....	1	.....	2	9
East India	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Egypt	.....	.....	1	.....	.....	1	.....	.....	.....	1	.....	.....	3
England	9	12	11	12	11	15	16	14	9	13	12	14	148
Finland	1	.....	.....	1	.....	2	.....	2	.....	.....	.....	.....	6
France	.....	2	2	2	1	1	.....	3	.....	1	.....	3	15
Germany	33	34	32	39	37	31	32	38	38	40	33	37	424
Greece	2	6	2	4	3	1	5	6	5	2	4	4	44
Holland	2	.....	.....	.....	1	.....	1	1	1	.....	.....	.....	6
Hungary	8	1	10	17	13	7	6	6	4	12	6	5	95
Ireland	53	52	71	62	76	72	62	65	46	55	61	98	773
Italy	90	50	62	49	96	78	69	67	65	70	57	60	813
Japan	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	2
Lithuania	4	.....	7	3	1	1	2	2	3	5	14	7	49
Mexico	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Norway	.....	2	.....	1	.....	1	.....	.....	.....	.....	2	12	18

NATIVITY OF PRISONERS, CLASSIFIED MONTHLY—*Continued.*

NATIVITY	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Nova Scotia	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Poland	31	12	22	26	31	29	32	37	19	38	22	17	316
Roumania	.....	1	1	3	1	2	3	7	1	1	.....	4	24
Russia	36	37	63	37	37	40	41	51	40	37	66	52	537
Scandinavia	1	9	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	12
Scotland	6	5	22	9	11	6	11	7	7	5	8	9	106
Slav	.....	.....	6	5	.....	.....	1	1	.....	.....	2	1	16
Spain	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Sweden	7	5	5	8	2	2	1	7	3	5	2	6	53
Switzerland	.....	.....	.....	2	3	.....	.....	4	.....	2	1	3	15
Turkey	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
United States (white)	389	341	401	405	459	435	428	404	394	431	377	466	4,930
United States (colored)	67	81	101	74	79	108	96	73	83	94	91	89	1,036
Wales	1	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	3
West India	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals	759	676	854	783	880	860	844	834	751	833	797	926	9,797

OCCUPATION OF PRISONERS, CLASSIFIED MONTHLY.

OCCUPATION	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Actor	.....	.....	1	2	.....	1	3	.....	.....	.....	.....	.....	7
Agent	4	7	7	4	5	8	9	4	4	7	8	3	70
Artist	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	2
Architect	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Auctioneer	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Aviator	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Awningmaker	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Baker	4	1	5	4	5	4	1	3	4	2	4	6	43
Barber	2	1	5	3	.....	6	2	4	2	1	2	2	30
Bartender	3	3	5	2	13	2	7	6	2	5	12	4	64
Blacksmith	2	4	4	2	4	3	3	4	3	8	10	4	51
Boatman	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Boilermaker	.....	.....	1	1	1	1	1	.....	.....	1	.....	.....	6
Bookkeeper	1	.....	.....	1	.....	1	2	.....	1	1	1	.....	8
Boy (16 to 21 years)	65	53	61	76	85	67	93	84	70	60	55	78	847
Bottler	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Boxmaker	.....	.....	2	.....	1	3	.....	.....	.....	1	.....	.....	7
Brakeman	.....	.....	1	1	2	.....	.....	1	.....	1	1	.....	7
Brassworker	1	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....	4
Brewer	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	2
Bricklayer	.....	1	1	1	.....	1	5	1	5	3	3	1	22
Broker	1	.....	.....	.....	.....	.....	1	.....	2	.....	.....	.....	4
Brushmaker	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1

OCCUPATION OF PRISONERS, CLASSIFIED MONTHLY—*Continued.*

OCCUPATION	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Builder	.....	.....	.....	.....	.....	.....	1	2	.....	.....	3	.....	6
Buffer	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Butcher	1	7	6	8	4	5	1	4	5	9	4	6	60
Butler	.....	1	.....	.....	.....	.....	1	.....	1	.....	1	.....	4
Buttonmaker	5	1	2	2	.....	8	3	2	.....	4	1	.....	28
Cabinetmaker	.....	.....	.....	.....	.....	.....	.....	.....	1	2	1	1	5
Carpenter	4	12	15	15	14	17	13	15	11	14	9	8	147
Carriagemaker	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2
Caterer	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Chauffeur	11	14	14	9	11	22	11	10	20	28	18	29	197
Chemist	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	2
Cigarmaker	1	.....	1	1	2	.....	1	1	2	1	1	2	13
Civil Engineer	.....	.....	.....	.....	.....	.....	1	.....	.....	2	.....	.....	3
Clerk	19	8	17	13	13	13	15	5	12	6	10	10	141
Clergyman	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Collector	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	1	3
Conductor	4	1	1	2	1	2	1	1	1	1	3	4	22
Contractor	1	1	2	2	1	3	4	3	2	1	1	4	25
Cook	1	5	4	4	2	3	4	4	.....	.....	9	2	38
Cooper	.....	.....	1	1	.....	1	2	1	1	.....	.....	3	10
Coremaker	1	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....	4
Cutler	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	2
Cutter	.....	.....	.....	1	1	1	.....	.....	1	.....	.....	1	5

OCCUPATION OF PRISONERS, CLASSIFIED MONTHLY—*Continued.*

OCCUPATION	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Decorator	.....	1	1	.....	.....	.....	.....	.....	.....	1	.....	1	4
Detective	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Dentist	.....	.....	1	1	.....	.....	1	.....	.....	.....	.....	.....	3
Doctor	.....	2	.....	1	.....	3	4	1	2	3	1	4	21
Designer	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Draughtsman	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	1	3
Druggist	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Electrician	4	3	4	9	2	3	4	5	2	5	5	3	49
Engineer	3	4	2	3	2	5	2	5	3	1	3	3	36
Engraver	.....	.....	.....	.....	1	.....	1	1	2	1	.....	.....	6
Expressman	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	2	4
Farmer	3	1	.....	2	.....	3	1	2	1	5	6	5	29
Fireman	4	4	3	3	5	4	.....	3	5	3	5	3	42
Filemaker	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Florist	1	1	1	.....	.....	2	1	.....	1	.....	.....	.....	7
Foreman	.....	1	1	1	2	1	2	.....	.....	1	.....	1	10
Gardener	.....	1	3	.....	2	2	2	3	.....	.....	2	1	16
Girl (16 to 21 years)	11	7	10	8	8	2	7	6	4	11	6	8	88
Glassworker	1	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	3
Grinder	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Hackman	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2	3
Harnessmaker	.....	.....	2	1	.....	2	2	1	2	1	1	2	14
Hatter	5	4	3	8	10	3	4	4	13	11	10	10	85

OCCUPATION OF PRISONERS, CLASSIFIED MONTHLY—*Continued.*

OCCUPATION	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Horseshoer	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	2
Hostler	2	.....	.....	.....	.....	4	2	.....	1	.....	.....	.....	9
Hotelkeeper	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Inspector	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	1	4
Insurance	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Ironworker	3	2	4	4	5	2	1	3	4	10	6	3	47
Janitor	1	3	.....	2	.....	1	.....	1	.....	.....	1	.....	9
Japanner	.....	.....	4	.....	.....	.....	3	.....	1	1	.....	.....	9
Jeweler	7	4	4	5	2	4	6	3	2	3	2	3	45
Junk Dealer	2	3	4	2	8	1	2	4	3	.....	.....	1	30
Juveniles (boys)	45	24	59	55	34	64	34	57	35	46	59	23	526
Juveniles (girls)	2	3	3	1	1	3	1	2	.....	6	2	1	25
Laborers	233	203	250	239	291	262	246	254	219	267	245	290	2,999
Lastmaker	1	.....	.....	.....	2	.....	2	.....	.....	.....	.....	1	6
Lather	.....	2	.....	1	.....	2	.....	2	2	1	1	1	12
Laundryman	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Lawyer	2	1	.....	.....	.....	2	1	.....	.....	.....	.....	1	7
Leatherworker	6	13	5	7	4	4	10	8	6	9	5	6	83
Letter Carrier	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Lineman	1	.....	1	1	2	3	1	1	.....	.....	.....	.....	10
Locksmith	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Machinist	12	13	17	17	16	12	16	18	13	12	18	27	191
Manager	.....	4	1	2	1	3	3	3	2	.....	3	2	24

OCCUPATION OF PRISONERS, CLASSIFIED MONTHLY—*Continued.*

OCCUPATION	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Manufacturer	.....	1	.....	.....	.....	1	2	1	2	6	2	2	17
Mason	6	7	10	10	6	4	7	12	4	4	4	9	83
Merchant	5	13	9	7	11	14	17	17	14	11	7	15	140
Metalworker	.....	1	1	.....	4	.....	2	.....	1	1	.....	2	12
Milkman	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Miner	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	2
Millwright	.....	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....	4
Molder	1	6	8	8	5	4	4	3	4	3	6	4	56
Motorman	2	1	1	6	1	3	.....	.....	1	1	.....	4	20
Musician	2	1	1	.....	2	.....	2	1	1	4	1	2	17
No occupation	13	16	22	33	21	13	28	11	19	19	18	24	237
Nurse	1	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
Operator	1	.....	1	.....	.....	.....	.....	.....	1	.....	.....	1	4
Optician	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Painter	10	5	15	11	14	5	13	10	13	14	15	10	135
Patternmaker	.....	1	.....	.....	.....	.....	1	.....	2	.....	1	1	6
Palmistry	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Paperhanger	.....	.....	.....	.....	1	.....	2	.....	1	.....	.....	.....	4
Paver	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	2
Peddler	7	9	23	9	14	33	21	23	28	21	17	33	238
Photographer	.....	1	3	.....	.....	.....	.....	.....	1	.....	.....	.....	5
Plasterer	.....	.....	.....	.....	.....	.....	.....	3	2	.....	.....	.....	5
Plumber	6	1	4	5	4	8	5	8	4	2	4	7	58

OCCUPATION OF PRISONERS, CLASSIFIED MONTHLY—*Continued.*

OCCUPATION	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Polisher	2	5	1	2	3	3	5	4	5	5	4	6	45
Policeman	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Porter	1	2	2	3	2	3	2	3	6	2	3	9	38
Pressman	.....	1	.....	1	1	1	.....	1	.....	.....	.....	.....	5
Printer	4	3	7	5	2	1	2	3	4	5	3	3	42
Proprietor	.....	3	.....	.....	1	.....	.....	.....	.....	.....	1	.....	5
Postmaster's Assistant	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Publisher	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Refiner	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Reporter	1	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	3
Rigger	.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	3
Roofer	1	1	.....	.....	1	.....	.....	1	1	.....	1	.....	6
Sailor	.....	.....	1	1	3	2	4	1	2	2	1	5	22
Salesman	15	8	6	4	21	14	13	10	5	7	10	9	122
Saloonkeeper	2	2	5	2	7	4	3	7	6	10	21	11	80
Sawyer	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	2
Shoemaker	2	2	2	3	4	5	6	5	2	2	2	6	41
Showman	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Silversmith	1	1	1	1	.....	1	1	.....	.....	1	2	1	10
Special Officer	2	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	4
Spinner	.....	2	.....	.....	.....	1	.....	.....	1	.....	.....	.....	4
Spinster	19	23	29	23	25	35	18	25	21	32	27	25	302
Steamfitter	1	1	2	.....	2	3	.....	3	4	1	2	3	22

OCCUPATION OF PRISONERS, CLASSIFIED MONTHLY—*Continued.*

OCCUPATION	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Steelworker	.....	1	.....	1	.....	.....	.....	.....	1	1	4	.....	8
Stenographer	.....	.....	.....	1	.....	1	1	1	.....	.....	.....	.....	4
Steward	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Stonecutter	2	1	.....	.....	2	.....	2	.....	1	1	2	.....	11
Storekeeper	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	2
Student	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	2
Tailor	27	19	9	3	8	8	3	6	7	8	1	5	104
Tanner	.....	2	.....	1	1	.....	2	.....	.....	.....	.....	.....	6
Teacher	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....	1	4
Teamster	37	35	39	28	43	44	38	41	44	36	33	46	464
Tinker	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Tinsmith	2	4	1	.....	1	1	.....	3	1	.....	1	.....	14
Toolmaker	1	2	4	1	1	2	4	.....	.....	3	.....	.....	18
Trunkmaker	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	2
Truckman	1	2	1	.....	.....	.....	.....	.....	.....	.....	.....	1	5
Undertaker	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2
Upholsterer	.....	.....	.....	3	.....	1	2	2	.....	.....	.....	1	9
Waiter	8	2	2	2	3	1	12	5	4	4	10	9	62
Watchman	5	1	1	1	2	.....	.....	.....	1	1	.....	1	13
Watchmaker	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	2
Watchcase-maker	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2
Weaver	.....	2	2	.....	1	.....	1	.....	.....	.....	1	.....	7
Wheelwright	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1

OCCUPATION OF PRISONERS, CLASSIFIED MONTHLY—*Continued.*

OCCUPATION	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Widow	27	24	31	19	27	18	19	17	18	19	18	25	262
Wife	61	32	59	54	60	50	45	51	39	42	39	65	597
Wireworker	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	2
Woodworker	.....	1	1	.....	1	.....	.....	2	.....	.....	.....	.....	5
Totals	759	676	854	783	880	860	844	834	751	833	797	926	9,797

FEMALES ARRESTED DURING THE YEAR.

	No. of Arrests.
January	94
February	89
March	132
April	105
May	125
June	108
July	89
August	90
September	82
October	106
November	92
December	124
Total	1,236

STORES AND DWELLINGS FOUND OPEN BY MEMBERS OF THE DEPARTMENT DURING THE YEAR AND THE OWNERS OR OCCUPANTS THEREOF NOTIFIED.

January	48
February	40
March	36
April	51
May	49
June	45
July	45
August	46
September	26
October	51
November	34
December	64
Total	535

LOST CHILDREN FOUND UPON THE STREETS AND RETURNED TO THEIR PARENTS OR GUARDIANS THROUGH THE AGENCY OF THIS DEPARTMENT DURING THE YEAR.

January	56
February	39
March	91
April	118
May	148
June	150
July	147
August	121
September	105
October	90
November	70
December	71
Total	1,206

ALARMS OF FIRE ANSWERED BY THE RESERVE OFFICERS DURING THE YEAR.

January	95
February	117
March	93
April	96
May	104
June	108
July	115
August	91
September	92
October	66
November	111
December	117
Total	1,205

POLICE SIGNAL SYSTEM.

Number of Ambulance, Automobile Duty and Wagon Calls Transmitted by the Officers Through the Police Signal System During the Year.

CALLS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Automobile calls (ambulance)	80	97	85	116	121	133	127	97	172	113	109	63	1,313
Automobile calls (prisoners)	277	381	395	359	472	402	477	421	606	638	715	616	5,759
Wagon calls (ambulance)	45	22	30	23	32	42	46	40	1	28	4	76	389
Wagon calls (prisoners)	441	319	404	351	344	331	353	402	136	158	2	220	3,461
Duty calls	49,970	45,363	53,020	49,645	49,612	42,257	48,906	45,150	45,824	48,435	45,884	50,476	574,542
Totals	50,813	46,182	53,934	50,494	50,581	43,165	49,909	46,110	46,739	49,372	46,714	51,451	585,464

Condition of Gas and Electric Lamps as reported by the Members of the Department and compiled from daily lamp reports from each Precinct, and amount deducted from bills of Gas and Electric Companies by the City Auditor.

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
GAS LAMPS—													
Glass broken	2	.....	.....	.....	.....	.....	1	.....	.....	2	1	.....	6
Hours not burning	19	110	20	36	73	49	83	13	4	1	16	12	436
Poor light	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Totals	21	110	20	36	73	49	85	13	4	3	17	12	443
ELECTRIC LAMPS—													
Hours not burning—													
Arc	4312	2186	2896	2141	1191	1976	1673	1939	3273	3125	3621	2362	30,695
Incandescent	178	52	55	20	.....	15	25	18	75	49	57	112	666

Deducted from Gas Company's bills	$ 34.70
Deducted from Electric Company's bills	654.68
Total	$689.38

DISPOSITION OF AMBULANCE CALLS.

CONVEYED TO	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Alms House	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	2
Beth Israel Hospital	3	1	1	.....	3	3	1	.....	2	1	.....	1	16
City Hospital	70	55	66	88	84	103	68	91	76	76	67	73	917
German Hospital	.....	.....	.....	2	.....	.....	1	2	1	.....	.....	.....	6
Eye and Ear Hospital	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Holle's Morgue	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Removals	1	1	2	4	2	1	6	1	4	2	2	4	30
St. Barnabas' Hospital	4	6	4	2	2	2	10	5	4	2	4	2	47
St. James' Hospital	5	15	9	7	12	9	18	7	13	8	2	10	115
St. Michael's Hospital	1	2	3	2	3	3	2	3	2	1	1	.....	23
Taken home	14	10	10	13	15	14	18	5	17	10	15	14	155
Service refused	26	29	22	21	31	39	48	23	54	41	22	34	390
Drunk	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	2
Totals	125	119	118	139	153	175	173	137	173	141	113	139	1,705

ROSTER
AND DISTRIBUTION OF THE FORCE

POLICE HEADQUARTERS

Rank	Name.	Remarks.
Chief	Michael T. Long.....	
Captain	Frank W. Tuite.....	
Captain	Joseph Cordano	Headquarters (nights)
Lieutenant ...	John W. Prout.....	
" ...	Thomas Tracy.....	
" ...	John M. Tyler.....	
" ...	Thomas W. Daly.....	Detective Bureau.
" ...	Edward J. Donovan...	" "
" ...	James Donovan.....	Mayor's Office.
" ...	Joseph K. Ebert.....	Detective Bureau.
" ...	Joseph A. Fagan.....	" "
" ...	Joseph Farrell.....	" "
" ...	George P. Fohs.....	" "
" ...	John F. Harris.....	Chief's Office.
" ...	John Horter.....	Detective Bureau.
" ...	August Jackes.....	" "
" ...	Robert J. Jones.....	" "
" ...	Edward A. Keogh.....	" "
" ...	Frederick J. Kuhn.....	" "
" ...	Julius Maier	" "
" ...	James F. Meehan.....	" "
" ...	John J. McConnell....	Chief's Office.
" ...	John McMahon.....	Detective Bureau.
" ...	James J. Quinn.....	Chief's Office.
" ...	Patrick J. Ryan.....	Detective Bureau.
" ...	Domenic Tenore.....	" "
Sergeant	Charles O'Gara.....	
Patrolman ...	Henry L. Baldwin.....	
" ...	Philip M. Baumann...	
" ...	Luke Conlon	
" ...	Joseph A. Connell....	
" ...	Henry F. Corbitt.....	
" ...	Louis Dauber	
" ...	Frank Donnelly	
" ...	Fred R. Gibney.....	
" ...	John J. Hackett.....	
" ...	Benjamin S. Knapp...	

POLICE HEADQUARTERS.—*Continued*

Rank	Name.	Remarks.
Patrolman....	William J. McCabe....	
" ...	Peter F. McKiernan...	
" ...	Edward F. McLaughlin	
" ...	Patrick J. McTague...	
" ...	John O'Connor	
" ...	Martin O'Malley	
" ...	Thomas J. Owens.....	
" ...	Frederick Rath	
" ...	Joseph C. Robrecht...	
" ...	John H. Sanderson....	
" ...	Edward Schroeder.....	
" ...	John H. Townsend....	
" ...	Gustave A. Harms.....	

FIRST PRECINCT.

Rank	Name.	Remarks.
Captain	Michael J. Ryan.....	
Captain	William H. Stucky....	Mounted & Motorcycle Squads.
Lieutenant ...	John Caffrey	
" ...	John W. McGeehan...	
" ...	Patrick J. Troy.....	
Sergeant	George H. Bowers....	
"	Frederick J. Feller....	
"	Owen Gilroy	
"	William A. Norton....	
"	William Ryan	
"	John C. Schreiner.....	Mounted Squad.
"	Harry T. Stillman.....	Bicycle Squad.
"	Michael J. Tully.....	Traffic Squad.
"	Peter G. Ulrich.....	
Patrolman ...	John J. Athley.....	
" ...	David B. Banta.....	
" ...	John Begley.....	
" ...	Cornelius C. Benfer...	
" ...	Albert Berguer	
" ...	Edward Bonnet.....	

FIRST PRECINCT—*Continued.*

Rank	Name.	Remarks.
Patrolman....	Frank J. Bowron.....	
" ...	John A. Brady.....	
" ...	Thomas F. Brennan, Jr.	
" ...	Moe Brodsky	
" ...	Christian Bruns.....	
" ...	Charles A. Clark.....	
" ...	Francis A. Cleveland..	
" ...	Divers Coleman.....	
" ...	James H. Collins.....	
" ...	Arthur A. Collins, Jr..	
" ...	William R. Coonradt..	
" ...	Dennis D. Cronin.....	
" ...	Francis X. Crowley...	
" ...	Oscar H. Davidson....	
" ...	Noble Deering.....	
" ...	George Dippold.....	
" ...	Richard Dolan.....	
" ...	William Douglas.....	
" ...	Felix Dunn.....	
" ...	William H. Dyer.....	
" ...	Matthew F. Early.....	
" ...	John Eckerlin.....	
" ...	Thomas A. Fahey.....	
" ...	James A. Faraher.....	
" ...	Jacob Fine.....	
" ...	Bernard Firner.....	
" ...	Louis Flink.....	
" ...	Michael F. Flood.....	
" ...	George H. Foran.....	
" ...	Joseph Frank.....	
" ...	Matthew M. Gaynor...	
" ...	William U. Goetter....	
" ...	Henry D. Hammond..	
" ...	August Harms	
" ...	Frederick G. Heckman..	
" ...	Frederick Heller.....	
" ...	Peter J. Henry.....	
" ...	Joseph Horter.....	
" ...	Harry R. Jewell.....	
" ...	Matthew F. Kelly.....	
" ...	Owen P. Kelly.....	
" ...	William J. Kerrigan...	
" ...	Thomas L. King.....	
" ...	Gustave Klos, Jr.....	
" ...	John Letzelter	
" ...	Adolph Lindeman.....	

FIRST PRECINCT—*Continued.*

Rank	Name.	Remarks.
Patrolman....	Henry C. Luby.....	
" ...	Nich. A. Medembach..	
" ...	James Moran.....	
" ...	Patrick Murray.....	
" ...	William J. Murray....	
" ...	Joseph M. Murtha.....	
" ...	James H. McDonald..	
" ...	Alexander McDonnell..	
" ...	Thomas McEntyre....	
" ...	Thomas McEvoy.....	
" ...	Francis V. McFeeley..	
" ...	John J. McGrath.....	
" ...	Peter McGuire.....	
" ...	Peter S. McHugh.....	
" ...	Theodore S. McNally..	
" ...	Edward J. O'Connor..	
" ...	Thomas O'Connor....	
" ...	Bernard J. O'Rourke..	
" ...	William Peterson.....	
" ...	Patrick M. Quinless...	
" ...	Fred Rauchmiller.....	
" ...	Frank J. Reddington..	
" ...	Martin Reichenbecher.	
" ...	James H. Reilly.....	
" ...	William Rommeihs....	
" ...	William H. Rossnagel.	
" ...	Christopher Ryan.....	
" ...	Arthur G. Schaible.....	
" ...	Walter Schlund.....	
" ...	Richard J. Schott.....	
" ...	Jacob Sichler.....	
" ...	John Sickles.....	
" ...	Alfred V. Skillman....	
" ...	Charles H. Stollberg..	
" ...	Edward Vanegri.....	
" ...	Alonzo Van Riper.....	
" ...	Michael E. Walsh.....	
" ...	Thomas Walsh.....	
" ...	Frederick J. Weber...	
" ...	John F. Weber.....	
" ...	William Weippert.....	
" ...	John R. Welch.....	
" ...	Henry W. Weller.....	
" ...	William H. Wiedmann.	
" ...	Eugene L. Williams...	
" ...	Herman A. Wolfarth..	

FIRST PRECINCT—*Continued.*

Rank	Name.	Remarks.
Patrolman		
3rd Year.....	Edward A. Dougherty.	
" ...	George Eschenfelder..	
" ...	John Hager.....	
" ...	Joseph A. Harris.....	
" ...	Timothy J. McGrath..	
" ...	Robert R. Newhall....	
" ...	Patrick J. O'Connor...	
Patrolman		
2nd Year.....	Conrad Bechtle.....	
" ...	Joseph P. Coll.....	
" ...	William H. Mullin....	
" ...	George Rebsch.....	
Patrolman		
1st Year.....	Philip A. Davenport...	
" ...	Bart. J. Dougherty....	
" ...	Joseph E. Horter.....	
" ...	William L. Kendall....	
" ...	Henry Knockel.....	
" ...	Mortimer F. Ryder....	

SECOND PRECINCT.

Rank	Name.	Remarks.
Captain	John E. Brown.....	
Lieutenant ...	Peter J. Fallon.....	
" ...	Thomas Purcell.....	
" ...	William Sonnick.....	
Sergeant	M. Joseph Dauth.....	
"	Patrick Durkin.....	
"	James D. Fitch.....	
"	James Kenny.....	
"	Oscar H. Lueddeke...	
"	Andrew J. McKenney.	
"	Thomas Wilson.....	
Patrolman ...	Thomas S. Adubato...	
" ...	Walter W. Anderson..	
" ...	William J. Anderson..	

SECOND PRECINCT—*Continued.*

Rank	Name.	Remarks.
Patrolman....	Artemus L. Beattie....	
" ...	Matthew Brady.....	
" ...	Charles R. Brown.....	
" ...	John J. Burke.....	
" ...	Thomas Callahan.....	
" ...	George D. Callan.....	
" ...	Charles P. Carr.....	
" ...	Thomas Clark.....	
" ...	William H. Connely..	
" ...	Joseph P. Cosgrove....	
" ...	John F. Costello.....	
" ...	Thomas J. Crann.....	
" ...	Harry Crawford.....	
" ...	Peter Delaney.....	
" ...	Joseph J. Donnelly....	
" ...	Dennis Donovan.....	
" ...	John J. Doran.....	
" ...	Bernhard H. Entner...	
" ...	William C. Evertz....	
" ...	Francis J. Farrell.....	
" ...	Edward Feely.....	
" ...	Patrick Glennon.....	
" ...	Michael Goodwin.....	
" ...	Jacob W. Heger.....	
" ...	Patrick F. Higgins....	
" ...	John Hoben.....	
" ...	Thomas Kelly.....	
" ...	John W. Kiernan.....	
" ...	Michael B. Kiley.....	
" ...	Milton W. Lacey.....	
" ...	John J. Lloyd.....	
" ...	Roger Maguire.....	
" ...	Jeremiah Mahoney....	
" ...	James H. Manning....	
" ...	Dennis Maroney.....	
" ...	Silas D. Montrose....	
" ...	Fred Moson.....	
" ...	Jeremiah Mullaney....	
" ...	Patrick Murphy.....	
" ...	John A. McCabe.....	
" ...	Thomas F. McCabe...	
" ...	Thomas J. McDermott.	
" ...	Thomas McGrath.....	
" ...	Terrence M. McGuire..	
" ...	John J. McHugh.....	
" ...	Peter J. McKenna.....	

SECOND PRECINCT—*Continued.*

Rank	Name.	Remarks.
Patrolman	George T. Neefus	
"	William Nestor	
"	James Niblo, Jr	
"	Adolph Olsson	
"	James P. Parkinson	
"	William M. Provost	
"	Patrick F. Reilly	
"	George L. Rosenfelder	
"	Ralph S. Sayre	
"	Theodore Schaeffer	
"	Henry D. Schwartz	
"	Samuel Sheppard	
"	Wilbur J. Shupe	
"	Michael Smith	
"	Sylvester J. Smith	
"	Andrew A. Stirling	
"	Thomas Sullivan	
"	Isadore Surges	
"	Frederick A. Thorne	
"	John Vance	
"	Frank W. Van Houten	
"	Aaron W. Van Ness	
"	Frank M. Volk	
"	James F. Walsh	
"	Joseph Warren	
"	Worth'ton D. Whitman	
"	Frank D. Williams	
"	Charles J. Wilson	
"	Wilbert Zeliff	
"	Joseph Zeller	
Patrolman 3rd Year	James Athorne	
"	Arthur Clemens	
"	Frederick A. Dempsey	
"	Daniel J. Donahue	
"	John J. Fletcher	
"	William F. Gannon, Jr.	
"	Edward Griffin	
"	Joseph J. Kenny	
"	James J. Martin	
"	Edward McCormack	
"	Frank A. O'Neil	
"	Francis A. Pullin	
"	Bernard J. Snellen	
"	Charles F. Widman	

SECOND PRECINCT.—*Continued*

Rank	Name.	Remarks.
Patrolman 2nd Year.....	Stephen A. McLane...	
" ...	John J. Reilly.....	
Patrolman 1st Year.....	Harry S. Anderson....	
" ...	William F. Desmond..	
" ...	Cornelius G. Duffy....	
" ...	Anthony Holzworth...	
" ...	William A. Moran....	
" ...	James McCormack....	
" ...	William P. Ryan.....	
" ...	Henry D. Ryan, Jr....	

THIRD PRECINCT.

Rank	Name.	Remarks.
Captain	Peter J. Christie.....	
Lieutenant ...	Luke Forsyth.....	
" ...	William J. Walzer.....	
" ...	Joseph W. Wriggins..	
Sergeant	John H. Groo.....	
"	John R. Huebner.....	
"	John J. Kellett.....	
"	John Knoedler.....	
"	Frank A. Oppel.....	
"	George A. Stadlman..	
Patrolman ...	Jacob Alexander.....	
" ...	Edwin Bauer.....	
" ...	Daniel Blewitt.....	
" ...	August A. Brandes....	
" ...	Frank E. Brex.....	
" ...	George H. Brown.....	
" ...	Charles H. Carroll....	
" ...	George W. Chenoweth.	
" ...	Samuel J. Collins.....	
" ...	Dennis M. Cremen....	
" ...	Patrick Cruit.....	
" ...	Michele Daniele.....	

THIRD PRECINCT—*Continued.*

Rank	Name.	Remarks.
Patrolman....	Peter J. Duffy.....	
" ...	Michael P. Dunn.....	
" ...	Louis J. Farley.....	
" ...	Hugh Fitzpatrick.....	
" ...	Hugh Fitzsimmons....	
" ...	Peter J. Fitzsimmons..	
" ...	Thomas F. Gallagher..	
" ...	Thomas A. Golden....	
" ...	Ferdinand A. Hax.....	
" ...	Michael J. Helmstetter.	
" ...	John Henry.....	
" ...	John F. Hopkins.....	
" ...	William F. Kenny.....	
" ...	Peter J. King.....	
" ...	Herman W. Krasowski.	
" ...	John F. Lee.....	
" ...	Joseph Lewis.....	
" ...	Albert Lukacsy.....	
" ...	Edward H. Luttgens...	
" ...	Arthur W. Martin.....	
" ...	George X. Messner...	
" ...	John L. Miller.....	
" ...	Joseph A. Miller.....	
" ...	Michael J. Morley.....	
" ...	William P. Murphy...	
" ...	James McCarrick.....	
" ...	Andrew McGrath.....	
" ...	William F. Nichols....	
" ...	Stephen A. O'Connor..	
" ...	John Queenan.....	
" ...	Conrad Rauscher.....	
" ...	George J. Roller.....	
" ...	Charles Schumacher...	
" ...	George Schumacher....	
" ...	Thomas Scully.....	
" ...	Francis A. Smith.....	
" ...	John E. Smith.....	
" ...	Thomas A. Smith.....	
" ...	William F. Smith.....	
" ...	Joseph G. Sweeney...	
" ...	Christian J. Teschke. .	
" ...	Patrick J. Tuite.....	
" ...	George H. Van Houten	
" ...	Harvey VanSteenbergh	
" ...	Ferdinand Zeigler.....	

THIRD PRECINCT—*Continued.*

Rank	Name.	Remarks.
Patrolman		
3rd Year.....	James F. Fannon.....	
" ...	Bartley Gray	
" ...	John L. Jones.....	
" ...	Francis J. Liebhauser..	
" ...	Joseph P. Reilly.....	
" ...	Frank J. Rodgers.....	
" ...	John A. Seery.....	
" ...	John C. Zimmerman..	
Patrolman		
2nd Year.....	James D. Bell.....	
" ...	Walter T. Byrnes.....	
Patrolman		
1st Year.....	Richard J. Green.....	
" ...	Eugene F. Jackson....	
" ...	Hugh M. O'Brien.....	

FOURTH PRECINCT.

Rank	Name.	Remarks.
Captain	Oscar Vogel.....	
Lieutenant ...	Jacob Koerber	
" ...	Charles McGovern.....	
" ...	Jacob Suchard	
Sergeant	William Arnold	
"	Patrick Farley.....	
"	Castor W. Gray.....	
"	Philip H. Kull.....	
"	James F. O'Neill.....	
"	Emil E. Schmidt.....	
Patrolman ...	Theodore Ambs	
" ...	James R. Ansley.....	
" ...	Louis C. Axt.....	
" ...	Charles Bender	
" ...	Frederick Benkert	
" ...	Philip Benz	
" ...	George Burger, Jr.....	
" ...	Thomas F. Burnett.....	

FOURTH PRECINCT—*Continued.*

Rank	Name.	Remarks.
Patrolman....	William P. Colfer.....	
" ...	John Conlon	
" ...	Alfred Cort	
" ...	George W. Dickson....	
" ...	Lewis T. Eckert.....	
" ..	Emil Filliger.....	
" ...	Thomas Fitzsimmons...	
" ...	William A. Friedrich...	
" ...	John F. Gilday.....	
" ...	James A. Gorman.....	
" ...	Charles Hammer	
" ...	John J. Hanley.....	
" ...	William Harenberg.....	
" ...	William Harms.....	
" ...	Charles P. Heurich.....	
" ...	Gustav Heurich.....	
" ...	James H. Honish.....	
" ...	George E. Kaas, Jr.....	
" ...	Charles Kabus	
" ...	Edward L. Keelan.....	
" ...	Valentine Kempf.....	
" ...	Anton T. Kolberg.....	
" ...	Patrick J. Kenny.....	
" ...	George Kromelbein.....	
" ...	Fred C. Lange.....	
" ...	William A. Lau.....	
" ...	John Laubenstein.....	
" ...	Charles H. Lible.....	
" ...	Philip Linnenkohl.....	
" ...	Joseph Meier	
" ...	Frank M. Miller.....	
" ...	Louis Moreback.....	
" ...	Henry Mueller	
" ...	Max Musaeus	
" ...	Philip J. McAdams.....	
" ...	Thomas J. McCarthy....	
" ...	James McMenamin.....	
" ...	William Neitman.....	
" ...	Herman C. Nunn.....	
" ...	Samuel R. Pasko.....	
" ...	Daniel Rottenberg.....	
" ...	William Salter.....	
" ...	George Sansom.....	
" ...	Frank A. Schaeffer.....	
" ...	Edward Schiller	
" ...	Charles Schmitt	

FOURTH PRECINCT—*Continued.*

Rank	Name.	Remarks.
" ...	Henry Schroeder	
" ...	William Schwerer	
" ...	John J. Shanley.....	
" ...	Watson H. Speer.....	
" ...	Richard G. F. Spilner...	
" ...	Harry Theobold	
" ...	William F. Teutsch	
" ...	Victor A. Tortariello...	
" ...	Jacob B. Tuckman.....	
" ...	John Weippert	
" ...	Charles J. Wolf.....	
" ...	Henry Wolf.....	
Patrolman 3rd Year.....	Gustave Auer	
" ...	Joseph B. Brady.....	
" ...	William E. Clark.....	
" ...	George Feldman	
" ...	Henry Hummel	
" ...	James J. Kilkenny.....	
" ...	William J. Klueber.....	
" ...	Charles Moeller	
" ...	James P. McConnell....	
" ...	Gustave N. Smith.....	
" ...	Francis J. Stoeckel, Jr..	
Patrolman 2nd Year.....	Joseph A. Briedenbach.	
Patrolman 1st Year.....	James E. Clark.....	
" ...	Albert Houston.....	
" ...	James A. McAndrews..	
" ...	John J. Sweeney.....	

FIFTH PRECINCT.

Rank	Name.	Remarks.
Captain	William A. Carroll.....	
Lieutenant ...	Ernest A. Astley.....	
" ...	Charles W. Beckley.....	
" ...	Thomas F. Connell.....	
Sergeant	William Bonnet	
"	Frank E. Drastel.....	
"	James Farrell	
"	Uzal Garey	
"	John Hummel.....	
"	Philip Sebold.....	
"	John N. Stites.....	
Patrolman ...	James H. Anderson....	
" ...	Constantine K. Andress.	
" ...	Jesse V. Bailey.....	
" ...	John F. Brennan.....	
" ...	John W. Brown.....	
" ...	Frank A. Carroll.....	
" ...	Alexander R. Cleveland.	
" ...	George W. Conklin.....	
" ...	George A. Conway.....	
" ...	Patrick F. Crann.....	
" ...	Thomas F. Cullen.....	
" ...	John Dwyer	
" ...	Edward J. Feeney.....	
" ...	James J. Fletcher.....	
" ...	William A. Fox.....	
" ...	Frank C. Gaetje.....	
" ...	Thomas C. Gaynor.....	
" ...	Victor H. Girard.....	
" ...	John Haller	
" ...	Cornelius Hearn	
" ...	Andrew H. Hibler.....	
" ...	Patrick L. Hickey.....	
" ...	William G. Hoffman....	
" ...	Julius Howlett.....	
" ...	Emil Huebner	
" ...	Miles H. Husk.....	
" ...	Eugene Jeremias	
" ...	Michael J. Kearny.....	
" ...	William L. Kernan.....	
" ...	Thomas F. Kinney.....	

FIFTH PRECINCT—*Continued.*

Rank	Name.	Remarks.
Patrolman	Charles L. Lynch	
"	Thomas J. Martin	
"	Joseph J. Merck	
"	James Moore	
"	John Mulvey	
"	Thomas McGlade	
"	Thomas B. McGovern	
"	Joseph J. McGuire	
"	David Oliver	
"	Thomas J. Pettit	
"	Michael A. Philburn	
"	Frederick C. Pickel	
"	Michael J. Powers	
"	John S. Quimby	
"	Louis Schenkel	
"	Harry F. Scott	
"	Charles F. Sheridan	
"	John A. Sim	
"	John F. Strong	
"	Henry P. Thiele	
"	Frederick W. Thiele	
"	Anthony L. Towey	
"	Robert M. Venner	
"	John P. Walsh	
"	Charles W. Whitley	
Patrolman 3rd Year	James J. Gilshian	
"	James B. Morrisey	
"	William A. Morrison	
"	John J. McNally	
"	Patrick J. Quinn	
Patrolman 1st Year	James J. Flynn	
"	Robert C. Lawrence	
"	Harry L. Miller	
"	James J. McGowan	
"	William H. O'Neill	

SIXTH PRECINCT.

Rank	Name.	Remarks.
Captain	Samuel Brown	
Lieutenant ...	William Bohle	
" ...	Henry P. Frey.....	
" ...	James A. McRell.....	
Sergeant	John J. Early.....	
"	John H. Garry.....	
"	Edward E. Heller.....	
"	Charles Manger	
"	Michael J. McLane.....	
"	George C. Ruhl.....	
"	John E. Wright.....	
Patrolman ...	Colin C. Alliston.....	
" ...	Frederick W. Baier.....	
" ...	John H. Bechtold.....	
" ...	Joseph G. Bruns.....	
" ...	Frederick Charpentier..	
" ...	James Dargin	
" ...	William F. Decker.....	
" ...	George S. Dipley.....	
" ...	James J. Dowd.....	
" ...	William Dowling	
" ...	Michael Dunnion	
" ...	John J. Early.....	
" ...	Thomas J. Golden.....	
" ...	Charles Hector	
" ...	Richard Heller	
" ...	John Higel	
" ...	Ferdinand Hock	
" ...	Henry Holzhauer	
" ...	Frederick Holzworth...	
" ...	Louis Holzworth.....	
" ...	Charles Kabis.....	
" ...	John J. Keane.....	
" ...	Matthew J. Kiernan....	
" ...	Andrew J. Knef.....	
" ...	William Linnett.....	
" ...	John Lomax.....	
" ...	Michael J. McGrath....	
" ...	Charles McHugh	
" ...	Joseph McKeown.....	
" ...	James P. McLaughlin...	
" ...	Hugh M. Mooney.....	
" ...	Laurence J. O'Brien....	

SIXTH PRECINCT—*Continued.*

Rank	Name.	Remarks.
Patrolman	Jesse C. Peltz.....	
"	Peter Puff	
"	William C. Reichert....	
"	Terrence Reilly	
"	William J. Robinson....	
"	Samuel S. Rodgers.....	
"	Samuel Saslow.....	
"	Robert E. Scanlon.....	
"	Stephen R. Stucky.....	
"	John L. Todd.....	
"	Frederick G. Weigand..	
"	Robert J. Wilson.....	
Patrolman 3rd Year.....	Henry Bartkowick.....	
"	Frederick E. Bea.....	
"	Edwin L. Binder.....	
"	Philip Bittman.....	
"	James J. Deehan.....	
"	Thomas J. Downey....	
"	William J. Duffy.....	
"	Alfred H. Fischer.....	
"	John J. Gesell.....	
"	Wilbur N. Green.....	
"	Louis Kneller, Jr.....	
"	Alfred H. Pfrommer...	
"	William Sacher.....	
"	William R. Thomas....	
"	Clyde Truex	
"	Walter Weck	
Patrolman 2nd Year.....	Eugene C. Buerle.....	
"	Joseph J. Faith.....	
"	Theodore Fischer	
"	Wilbert Hinchcliffe	
"	William H. Hopkins....	
"	John F. Steckmann.....	
"	Bruno T. Studnicky....	
Patrolman 1st Year.....	William Bishof	
"	Peter J. Corbally.....	
"	Leon A. Hayward.....	
"	Philip Langheld	
"	Harry B. Osmun.....	
"	Joseph L. Oxner.....	
"	Eugene J. Seery.....	
"	James T. Stephenson...	

SEVENTH PRECINCT.

Rank	Name.	Remarks.
Captain	Thomas J. Corbally.....	
Lieutenant ...	Charles A. Lindner.....	
" ...	Samuel Meyerowitz.....	
" ...	Edward Van Orden.....	
Sergeant	George H. Estler.....	
"	John W. MacDonald....	
"	John F. McCabe.....	
Patrolman ...	Ralph Baker	
" ...	John Bernhard	
" ...	Thomas Burns	
" ...	John G. Heitzenroeder.	
" ...	James P. Lunney.....	
" ...	Robert A. Martin.....	
" ...	William McMinn.....	
" ...	John B. McGovern.....	
" ...	George A. Patterson....	
" ...	William A. Pfrommer..	
" ...	Albert Schmidt.....	
" ...	Edward M. Thornton...	
" ...	Otto Weippert	
" ...	James H. Wynne.....	
Patrolman 3rd Year.....	William M. Flynn.....	
" ...	Edward A. Moore.....	
" ...	Arthur J. Reed.....	
" ...	Edward A. Ritt.....	
Patrolman 1st Year.....	Dwight S. Arnoys.....	
" ...	John J. Lynn.....	

ANNUAL REPORT

OF THE

DETECTIVE BUREAU

ANNUAL REPORT

OF THE

DETECTIVE BUREAU

NEWARK, N. J., January 1st, 1914.

To the Honorable Board of Police Commissioners of the City of Newark, N. J.:

GENTLEMEN:—I herewith submit the annual report of the work performed by the Bureau for the year ending December 31st, 1913:

During the period covered, there were effected five hundred and ninety-two (592) arrests, a decrease of two in comparison with last year. There were filed a total of two thousand four hundred and fifty-four (2,454) complaints, an increase of four hundred and seventy-seven (477) over the previous year. On account of absence from duty by reason of illness and leave, to Desk Lieutenants, Detectives assigned to the Bureau were frequently called upon to perform desk duty for longer periods than in previous years, thus placing the Bureau at a disadvantage, hence fewer arrests were accomplished than in the preceding year.

I respectfully request your Honorable Board to add to this, the main branch of the Police Service, at least six officers. The rapid growth of our city fully warrants the suggested addition. The large number of all-night Cafes and Lunch rooms, with their alluring comforts, are the rendezvous, many of them, of vicious persons, and we must, if we are to properly cope with crime, so divide our staff of detectives that there may at all times be a sufficient number available for night duty.

The need of additional Detectives is further demonstrated by reason of the considerable work required of our officers in tracing fugitives, due to the increasing demands made upon the Bureau by other municipalities. During the year there were turned over to other cities a total of ninety-two (92) prisoners, and much time of our officers was consumed in an endeavor to locate twice as many more who were alleged to have taken shelter here. During the year our Detectives were alsewhere employed and succeeded in returning to this jurisdiction seventy-six malefactors.

Included in this report is a detailed statement of the work accomplished in the Bureau of Identification, which is conducted in an accurate, systematic manner, and in comparison is equal to any other Department of its character. The Bureau for the maintenance of records of Loan Offices and second-hand dealers, which entails great labor, has also increased its efficiency, but with the growth of business both these departments must soon be provided with more commodious quarters.

Appended to this report are the tabulated monthly statistics showing the total number of arrests, with the

classification of crimes. The total number of complaints filed, and the value of property recovered and restored to owners.

To your Honorable Board I extend my thanks for its uniform courtesy. To the Chief of Police for his earnest co-operation, and to the staff of the Detective Bureau for their energetic and efficient services I am grateful.

Respectfully submitted,

FRANK W. TUITE,

Captain of Police,
Commanding Detective Bureau.

SUMMARY OF ARRESTS MADE BY THE DETECTIVE BUREAU DURING THE YEAR, CLASSIFIED MONTHLY.

DISORDERLY PERSONS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Abandonment	1	1	2	1	2	.....	2	1	1	1	1	1	14
Bawdy house keeper (female)	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Bawdy house inmate (female)	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Common burglar, pickpocket or thief	3	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	4
Disorderly conduct	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Having burglar implements in possession	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Loitering	1	5	3	7	.....	2	.....	2	4	4	2	8	38
Vagrancy	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2
MISDEMEANORS													
Assault	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Assault and battery	1	.....	.....	3	1	3	2	.....	3	.....	2	2	17
Cocaine (using and selling)	.....	1	.....	.....	.....	.....	.....	.....	.....	5	1	.....	7
Carrying concealed weapons	.....	.....	.....	1	1	.....	.....	.....	.....	.....	1	1	4
Conspiracy	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	3
Extortion	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Escape of prisoner (aiding and abetting)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
False pretences	3	2	2	5	1	5	.....	1	3	3	3	3	31
Fornication	3	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	2	7
Fraud	.....	2	1	1	1	.....	.....	4	.....	.....	5	4	18
Illegal practice of medicine	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1

SUMMARY OF ARRESTS MADE BY THE DETECTIVE BUREAU DURING THE YEAR, CLASSIFIED MONTHLY—Continued.

MISDEMEANORS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Indecent exposure	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Illegal registration	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Larceny from the person	1	1	.....	.....	2	1	1	.....	1	3	.....	1	11
Libel	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Malicious mischief	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Petty larceny	2	6	6	4	3	4	5	.....	2	5	3	9	49
Petty larceny and receiving	3	3	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	8
Passing worthless checks	.....	.....	.....	.....	.....	.....	3	.....	1	.....	.....	.....	4
Receiving	1	4	.....	7	.....	1	.....	1	.....	.....	3	2	19
Seduction	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
HIGH MISDEMEANORS													
Abduction	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Assault and battery with attempt to kill	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	2
Arson	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Atrocious assault and battery	.....	.....	2	.....	1	.....	.....	.....	.....	1	.....	.....	4
Atrocious assault and battery and robbery	.....	.....	1	.....	.....	.....	.....	1	.....	1	.....	1	4
Attempt to rape	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Breaking, entering and stealing	.....	.....	2	8	1	2	2	.....	5	4	.....	4	28
Burglary	4	4	1	1	.....	1	1	1	.....	2	3	5	23
Entering and stealing	2	.....	.....	.....	.....	.....	3	2	.....	2	.....	.....	9

SUMMARY OF ARRESTS MADE BY THE DETECTIVE BUREAU DURING THE YEAR, CLASSIFIED MONTHLY—*Continued.*

HIGH MISDEMEANORS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Embezzlement	4	11	6	2	4	2	4	5	.....	4	7	7	56
Entering with intent	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Forgery	1	.....	.....	.....	.....	1	.....	.....	1	.....	1	1	5
Grand larceny	10	11	7	10	10	11	1	4	7	8	9	11	99
Grand larceny and receiving	.....	.....	.....	.....	1	.....	1	1	1	1	1	1	7
Highway robbery	.....	.....	1	2	1	.....	.....	.....	.....	.....	1	.....	5
Manslaughter	.....	.....	.....	.....	1	.....	.....	.....	1	1	.....	.....	3
Murder	.....	1	.....	6	.....	.....	1	.....	.....	.....	.....	1	9
Rape	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	2
MISCELLANEOUS													
Bastardy	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2	.....	3
Demented	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Fugitive from justice	1	.....	.....	.....	2	.....	.....	.....	.....	1	3	2	9
Juvenile offenders	.....	.....	.....	.....	3	.....	.....	2	7	.....	2	3	17
Misdemeanor (board bill)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Runaway juvenile	.....	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	3
Suspicion	3	.....	1	1	.....	1	1	1	.....	1	.....	3	12
Violation of automobile law	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Violation of parole	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1

SUMMARY OF ARRESTS MADE BY THE DETECTIVE BUREAU DURING THE YEAR, CLASSIFIED MONTHLY—*Continued.*

MISCELLANEOUS	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Violation of city ordinance (reckless driving)	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2
Violation of probation	.....	.....	1	2	.....	.....	.....	.....	.....	1	.....	.....	4
Violation of U. S. Revenue Laws	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Violation of city ordinance No. 49 (health)	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Violation of city ordinance No. 280	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Violation of city ordinance No. 453	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Violation of Excise law	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Violation of U. S. emigration law	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	2
Violation of city ordinance No. 458	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Witness	1	5	2	.....	2	.....	1	1	.....	2	.....	7	21
Totals	49	59	42	65	43	37	33	27	40	57	52	88	592

SUMMARY SHOWING THE MONTHLY RECORD OF THE VALUE OF PROPERTY RECOVERED AND RESTORED TO OWNERS DURING THE YEAR 1913:

January	$1,177.66
February	1,069.11
March	3,636.25
April	3,122.05
May	1,243.45
June	710.86
July	798.75
August	3,210.00
September	3,186.49
October	7,330.25
November	860.50
December	4,364.00
Total	$30,709.37

COMPLAINTS RECEIVED AND INVESTIGATED BY THE DETECTIVE BUREAU DURING THE YEAR 1913.

January	214
February	163
March	167
April	179

May	193
June	184
July	202
August	226
September	208
October	243
November	239
December	236
Total	2,454

SUMMARY SHOWING THE MONTHLY RECORD OF ARRESTS FOR THE YEAR 1913.

January	49
February	59
March	42
April	65
May	43
June	37
July	33
August	27
September	40
October	57
November	52
December	88
Total	592

BUREAU OF IDENTIFICATION—TOTALS FOR YEAR 1913.

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Number of male persons measured and photographed	28	24	29	39	22	17	17	23	21	34	28	55	335
Number of female persons measured and photographed	5	1	1	.....	1	1	1	2	1	1	4	2	20
Number of persons finger printed and classified	33	25	30	39	23	18	18	25	22	35	32	55	355
Number of negatives taken, regular course	41	32	35	46	27	21	19	28	28	41	34	60	412
Copies made, local subjects	5	7	3	4	4	2	1	6	5	7	4	5	53
Number of local Bertillon cards written, etc.	132	100	120	156	92	72	72	100	88	140	128	220	1,420
Number of mail cards written, mounted, etc.	330	250	300	390	230	180	180	250	220	350	320	550	3,550
Local index cards written and filed	33	25	30	39	23	18	18	25	22	35	32	55	355
Local alias cards written and filed	16	11	20	21	6	12	5	15	15	12	9	26	168
Local finger print index cards filed	33	25	30	39	23	18	18	25	22	35	32	55	355
Local rogues gallery index cards filed, etc.	33	25	30	39	23	18	18	25	22	35	32	55	355
Local record cards written and filed	33	25	30	39	23	18	18	25	22	35	32	55	355
Foreign Bertillon cards written and filed	20	18	21	24	17	24	23	27	24	24	28	31	281
Copies made of foreign photos, mounted, etc.	8	10	7	5	14	9	11	9	10	9	7	8	107
Foreign index cards written and filed	35	40	41	32	28	36	38	32	41	28	30	39	420
Foreign alias cards written and filed	19	16	15	14	9	20	31	20	19	21	24	21	229
Photographs received from other departments	35	40	41	32	28	36	38	32	41	28	30	39	420

BUREAU OF IDENTIFICATION—TOTALS FOR YEAR 1913—*Continued.*

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Disposition of local cases received and filed	24	19	26	37	21	18	15	22	20	30	26	41	299
Records received from other departments, etc.	14	9	15	12	17	14	21	26	19	16	23	28	214
Finger print sheets received (foreign)	4	2	6	4	7	11	13	9	12	16	2	13	99
Records furnished Prosecutor's office	9	14	12	11	14	6	11	9	15	12	16	16	145
Photographs furnished Prosecutor's office	33	25	30	39	23	18	18	25	22	35	32	55	355
Photographs furnished and mailed to other departments, etc.	28	30	52	29	40	36	28	25	24	21	27	25	365
Records furnished other departments	7	19	21	15	18	13	23	15	21	24	27	18	221
Communications written (bureau business only)	41	40	42	38	31	29	47	51	46	49	22	19	455
Photographs made of scenes of murders, etc.	1	4	2	1	1	5	.....	1	3	6	4	2	30
Stolen article lists typewritten and mailed	30	12	15	12	4	4	8	16	20	45	60	45	271
Finger print sheets sent to other departments	6	5	1	1	8	1	.....	4	3	9	11	4	53
Statements taken and typewritten	1	.....	.....	2	.....	2	.....	1	1	3	1	1	12
Drawings made of maps, etc.	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1	.....	3
Photograph enlargements made, etc.	.....	.....	.....	.....	6	.....	.....	4	.....	4	4	6	24
Persons measured, etc., for other departments	1	1	2	.....	.....	1	1	3	2	2	4	2	19

ANNUAL REPORT

OF THE

SURGEONS' DEPARTMENT

ANNUAL REPORT

OF THE

SURGEONS' DEPARTMENT

OFFICE OF CHIEF SURGEON,

NEWARK, N. J., January 1, 1914.

To the Honorable Board of Police Commissioners:

SIRS:—I herewith submit to your Honorable Board the annual report of the Surgeons' Department for the year ending December 31, 1913.

During the year 1910, new rules and regulations, together with new methods, were adopted, and have continued to work smoothly and satisfactorily. The increasing work of the Department makes these occasional changes necessary.

The Surgeons of the Department have continued to respond to all cases according to the requirements of their duties and the rules of the Department, and it has been their endeavor to give faithful, prompt and proper attention to every case. They have visited the members of the Department when injured or sick, ascertained the nature and extent of the disability in every case, have kept themselves informed as to the progress of same by frequent additional visits, and have submitted reports according to the rules of the Department—also special reports for those cases requiring same and those requested by the Board.

The health of the members of the Force has been reasonably good throughout the year. One sudden and universally regretted death occurred in the case of our

Chief, Michael Corbitt, who died suddenly on Decoration Day while in the full discharge of his duties, mounted, at the head of the day's parade. I would also record the sudden death of a good and faithful Officer, John T. McDonald, who was shot on the street by an excited citizen on July 12th. The Department lost during the year, by death, eight of its members, the others dying of natural causes—diseases from which they had suffered for long periods.

The following table will show the deaths which have occurred during the year, together with the cause of same, etc.:

NAME	RANK	DATE	CAUSE
James Byrne.....	Patrolman	Jan. 8, 1913	Tuberculosis of Lungs.
William M. Dunn.	Patrolman	Jan. 31, 1913	Pneumonia.
M. J. Corbally....	Patrolman	March 4, 1913	Chronic Phthisis.
Peter V. Flynn...	Patrolman	March 19, 1913	Chronic Endocarditis and Chronic Nephritis.
John T. Early....	Patrolman	March 21, 1913	Pernicious Anaemia.
John Ryan.....	Patrolman	May 27, 1913	Chronic Endocarditis and Cerebral Hemorrhage.
Michael Corbitt...	Ch. of Police	May 30, 1913	Apoplexy.
John T. McDonald	Patrolman	July 12, 1913	Pistol shot wound, right lung & liver, internal hemorrhage.

The examination and disposition of the unfortunate insane has continued to demand constant attention. It is a work involving much and increased labor, and at all times careful attention and thought. This feature of the work is augmented each year by the constant increase in the number of cases, caused largely by the fact that all kinds of cases and those from all sources are referred to and taken care of by this Department, demanding proper and prompt attention.

During the year the plan of reciprocity with New York State Commission in Lunacy, whereby patients are exchanged according to their legal residence, has continued to work with satisfaction and benefit to our City as well as New York.

The number of insane aliens found in our City and taken charge of by the Department increases each year; they are from foreign ports and are sent to the State Hospital as a charge upon the County. More success is attending the efforts to have these cases deported than in previous years, owing to new laws, improved facilities and a better understanding.

The City Hospital continues to perform a most efficient and creditable ambulance service, relieving the Police Department to a large extent of a service which has been a burden for years. Also the new adjustment in the matter of insane cases pending examination and disposition, has worked satisfactorily through the aid of the City and the prompt, efficient and careful observation and attention at the City Hospital.

All necessary care has been given to the physical examination of applicants for appointment in the Department, and reports in each case have been submitted strictly in accordance with the results obtained.

Have also examined, submitted reports to the Law Department and given testimony in court in all cases of bastard pregnancy, abuse and other similar cases, at the request of the City Counsel.

Regarding the sanitary condition of the different Precinct Stations, I have inspected each Station and submit the following report:

Police Headquarters—The sanitary conditions are satisfactory, except the need for more room.

First Precinct—Is well kept; clean and sanitary.

Second Precinct—Is kept clean and in good condition.

Third Precinct—Is in good and satisfactory condition.

Fourth Precinct—Is in satisfactory and sanitary condition.

Fifth Precinct—Clean and in good condition.

Sixth Precinct—New building; up to date and sanitary in every respect.

Seventh Precinct—Opened December 17, 1913; is kept tidy and in good condition.

Children for the City Home have been examined whenever found necessary by the Officer in charge.

The number of cases of epilepsy and feeble-minded children referred to the Surgeons has been increased over previous years. It is found very difficult to properly care for these cases—the asylum is not the place for them and recent laws enacted forbid their commitment. The New Jersey State Village for Epileptics, at Skillman, and the Home for Feeble-Minded Children, at Vineland, are well and properly equipped for the care of these

cases, but it is impossible to have them admitted and they are necessarily left to the dangers of their home surroundings. Many of the feeble-minded children could be materially helped—made to some extent helpful and useful—by a new arrangement in our public schools and teachers especially adapted to them. The Police Department should be relieved of all responsibility regarding these cases. This is a problem that bids fair to be solved and satisfactorily adjusted in, I hope, the near future, as many, able and deeply interested, are earnestly working for radical and needed changes in the humane care of these unfortunates.

The tables included in this report will indicate a part of the Department's work; also a table of the diseases and injuries from which the members of the Force have suffered during the year, causing them to lose time, will be found attached.

This Department would kindly express their full appreciation for the uniform courtesy received from the Board and from all members of the Department in the discharge of their duties.

Respectfully submitted,

J. HENRY CLARK,
Chief Surgeon.

A. J. MITCHELL,
Assistant Surgeon.

DISEASES AND INJURIES ATTENDED TO BY THE POLICE SURGEONS DURING THE YEAR ENDING DECEMBER 31, 1913.

Disease or Injury.	No. of Cases.
Abrasion, body	10
Alcoholism, acute	60
Asthma	3
Bright's Disease	4
Catalepsy	5
Cholera Morbus	9
Congestion of Liver	15
Contusion, body	8
eye	4
head	21
Coma, alcoholic	6
Debility	3
Diarrhoea	17
Epilepsy	9
Examination of children for City Home, males	2
Examination for criminal assault on female children	16
Examination for criminal assault on male children	6
Examination and preparing papers in cases of children for Home for Enfeebled Minds, females	6
Examination and preparing papers in cases of children for Home for Enfeebled Minds, males	2
Examination and preparing papers in cases of epilepsy for Epileptic Farm, Skillman, N. J.	8
Examination, preparing and signing papers for insanity, females	169

Disease or Injury.	No. of Cases.
Examination, preparing and signing papers for insanity, males	215
Examination for alleged rape	33
Examination for crime of sodomy	4
Examination, reports and testimony in cases of bastard pregnancy, request of City Aattorney and Criminal Courts	39
Foreign body in eye—dirt, etc., removed	31
powder, removed	4
Heart disease, valvular	1
Hemorrhage, lungs	2
Hysteria	19
La Grippe	9
Lumbago	13
Malingerer	17
Morphine habit	8
Old age	4
Pneumonia	1
Pregnancy	3
Rheumatism	19
Sprain, ankle	2
Syncope	4
Wounds, arm	3
arm, dog bite	2
face	5
hand	7
scalp	24
Total	852

THE FOLLOWING TABLE SHOWING INJURIES AND DISEASES FROM WHICH THE MEMBERS OF THE FORCE HAVE SUFFERED DURING THE YEAR, CAUSING THEM TO LOSE TIME, WILL INDICATE A PART OF THE POLICE SURGEON'S WORK:

Disease or Injury.	No. of Cases.
Abrasion, face	5
foot	2
Abscess, foot	1
inguinal	1
rectal	2
Adenitis	4
Adenoids	2
Anemia, pernicious	1
Appendicitis	9
operation	3
Asthma	4
Bladder disorder	2
Boils, foot	2
neck	3
Bowel disorder	48
Bright's disease	6
Bronchitis	10
Burns, hands	1
Calculus, renal	2
Cancer, face	2
Cellulitis, face	2
Circumcision	1
Cold, ordinary	65
Colic, gall stone	2

Disease or Injury.	No. of Cases
Contusion, arm	2
abdomen	1
back	4
body	8
eyes	4
face	4
foot	5
knee	13
leg	6
ribs	2
shoulder	1
testicle	2
wrist	2
Cystitis	4
Diarrhoea	12
Diabetes	1
Dislocation, finger	1
thumb	1
Eczema, ear	2
Endocarditis	2
face	1
Eye, catarrhal conjunctivitis	8
" contusion	4
" foreign body	3
" iritis	2
Feet, fallen instep	2
Fistula, in Ano	1
Fracture, clavicle	2
leg	1
rib	3
Gastritis	3
Gonorrhea	1
Gout	7

Disease or Injury.	No. of Cases.
Heat prostration	3
Heart, disease of	2
Hemorrhage, lungs	6
cerebral	3
Hemorrhoids	3
Hernia, inguinal—operation	1
Indigestion	9
La Grippe	99
Liver, congestion of	21
Laryngitis	3
Lumbago	26
Malaria	9
Migraine	2
Nail, toe ulcerated	2
Nasal, septum—operation	1
Nephritis, chronic	3
Neuralgia	9
Neurasthenia	7
Neuritis	3
Pharyngitis	1
Pleurisy	3
Pneumonia	2
Poisoning, ivy	3
ptomaine	1
Quinsy sore throat	8
Rheumatism	61
Sprain, ankle	14
finger	2
hand	1
knee	1
leg	1
wrist	4
Stomach disorder	41

Disease or Injury.	No. of Cases.
Syncope	3
Synovitis	5
Syphilis—primary	1
Tooth ache	9
Tonsillitis	17
Torticollis (stiff neck)	1
Tuberculosis	19
Ulcer, intestinal	2
varicose leg	1
Varicose veins, septum	1
legs	2
Wounds, face	6
finger	4
foot	1
hand, septic	5
hand	8
head	1
lip—insect bite	1
lung and liver—pistol shot wound (death)	1
scalp	7
thumb	2
Whooping cough	1
Total	748

Report of Pistol Practice

Newark, N. J., January 1, 1914.

Michael T. Long, Chief of Police:

Sir:—In accordance with my duties I submit herewith a report of results obtained at pistol practice during the season of 1913, and the scores made in the matches held between the teams representing Headquarters and the Precincts.

Thirty-nine afternoons and seven evenings between March 17th and April 29th were devoted to practice on the range of the Sixth Precinct Station; during that time four hundred and two members of the Department reported for practice and instruction. A great many of them reported several times oftener than required, more interest being shown than in previous years. The records of previous years were again beaten, which is decidedly encouraging and proves that the time and money being spent in this work is not being lost. As the men attain proficiency in deliberate firing they become interested in rapid firing, proficiency in which it is always my desire to promote, because it better fits a man to perform his duty to his City and himself when he can shoot quickly and accurately.

Those who attained good scores and the rank of marksmanship in which they qualified, shooting at a Standard

American target with an 8-inch bull's-eye, three counts in the black, 8—9—10, at twenty-five yards, are shown in the following lists:

EXPERTS.

Patrolman Louis Holzwarth	96—95—94—93—92
Patrolman Fred R. Gibney	96—94—94—93—91
Lieutenant William H. Stucky	94—94—94—93—93
Patrolman Frank E. Drastal	94—94—93—92—92
Patrolman Andrew J. Knef	93—90
Patrolman Bruno T. Studnicky	93—90
Captain Samuel Brown	93
Sergeant Frank A. Oppel	92—91
Patrolman John Haller	92
Sergeant James D. Fitch	91
Patrolman Thomas McEvoy	91
Patrolman Joseph G. Bruns	90—90
Sergeant James F. O'Neill	90—90
Patrolman Charles L. Kabis	90
Patrolman Frederick G. Weigand	90

SHARPSHOOTERS.

Patrolman Joseph C. Robrecht	89
Patrolman John Higel	88
Patrolman Max Musaeus	88
Patrolman Martin Reichenbecher	88
Messenger Jacob G. Reul	88
Sergeant John H. Groo	87
Patrolman George H. Estler	87
Patrolman William J. McCabe	86
Patrolman Bernard J. Snellen	85
Lieutenant George P. Fohs	84
Lieutenant Frederick J. Kuhn	83

Lieutenant William J. Walzer..... 83
Patrolman Charles McHugh..... 83
Patrolman Stephen R. Stucky..... 83
Patrolman Conrad Bechtle..... 82
Patrolman Frank A. Carroll..... 82
Patrolman Ferdinand Hoch..... 82
Lieutenant Charles A. Lindner..... 81
Patrolman Philip Benz..... 81
Patrolman Herman W. Krasowski..... 81
Patrolman Jacob Alexander..... 80
Patrolman William R. Coonradt..... 80
Patrolman Harry R. Jewell..... 80

FIRST-CLASS MARKSMEN.

Patrolman Isadore Surges..... 78
Sergeant Andrew J. McKenney..... 77
Patrolman Albert Bergeur..... 77
Patrolman Lewis T. Eckert..... 77
Patrolman Joseph P. Reilly..... 77
Patrolman Harry Crawford..... 76
Patrolman Richard G. F. Spilner..... 75
Patrolman Philip Sebold..... 75
Patrolman James Deehan..... 74
Patrolman Jacob W. Heger..... 74
Lieutenant William Sonnick..... 73
Patrolman Charles F. Widmann..... 73
Patrolman George Burger, Jr..... 72
Patrolman Louis P. Fink..... 72
Patrolman Wilbert Hinchcliffe..... 72
Patrolman John Lomax..... 72
Patrolman Ralph H. Baker..... 71
Lieutenant John F. Harris..... 70
Patrolman John L. Jones..... 70

SECOND-CLASS MARKMEN.

Patrolman Philip Bittman	68
Patrolman George H. Foran	68
Patrolman Owen P. Kelly	68
Patrolman Joseph A. Harris	67
Patrolman William Arnold	66
Patrolman Michael J. McGrath	65
Patrolman Andrew A. Stirling	65
Patrolman Edward J. Feeney	64
Patrolman John J. Gesell	63
Sergeant Oscar H. Lueddeke	62
Patrolman Ralph S. Sayre	62
Sergeant Uzal Garey	61
Patrolman Dennis D. Cronin	61
Patrolman John H. Bechtold	60
Patrolman Charles Manger	60

THIRD-CLASS MARKSMEN.

Patrolman Felix Dunn	57
Patrolman Peter J. Henry	55
Patrolman William Linnett	55
Patrolman Charles Kabus	55
Patrolman Francis J. Stoeckel, Jr	55
Patrolman Henry Wolf	53
Patrolman John H. Townsend	51

The annual revolver shooting competition between teams from Headquarters and the Precincts occurred on April 30th, the team representing the Sixth Precinct again winning. This being the third consecutive victory of the Sixth Precinct team, the trophy donated by the Board of Police Commissioners became their permanent property.

The score made by the winning team—449 out of a possible 500—is the highest recorded in all of our contests.

Following is shown the complete scores and the order in which the teams finished:

SIXTH PRECINCT TEAM.

Patrolman Frank E. Drastal	94
Patrolman Louis Holzwarth	92
Patrolman Andrew J. Knef	90
Patrolman Charles L. Kabis	90
Patrolman Joseph G. Bruns	83
Total	449

FOURTH PRECINCT TEAM.

Sergeant John H. Groo	87
Sergeant Frank A. Oppel	83
Patrolman Max Musaeus	83
Patrolman Philip Benz	81
Patrolman Richard G. F. Spilner	71
Total	405

SECOND PRECINCT TEAM.

Sergeant James D. Fitch	91
Patrolman William J. McCabe	86
Patrolman Charles F. Widman	73
Patrolman Harry R. Jewell	67
Lieutenant William Sonnick	53
Total	370

THIRD PRECINCT TEAM.

Patrolman Herman W. Krasowski	79
Sergeant James F. O'Neill	77
Lieutenant William J. Walzer	72
Patrolman Conrad Bechtle	68
Patrolman Jacob Alexander	61
Total	357

POLICE HEADQUARTERS TEAM.

Patrolman Fred R. Gibney	87
Patrolman William J. McCabe	85
Messenger Jacob G. Reul	74
Patrolman Joseph C. Robrecht	59
Lieutenant George P. Fohs	49
Total	354

FIRST PRECINCT TEAM.

Patrolman Thomas McEvoy	91
Patrolman William R. Coonradt	80
Sergeant William J. McKenney	66
Patrolman Martin Reichenbecher	62
Patrolman Joseph A. Harris	53
Total	352

FIFTH PRECINCT TEAM

Patrolman John Haller	82
Patrolman Albert Bergeur	77
Patrolman Edward J. Feeney	64
Patrolman Frank A. Carroll	61
Patrolman Charles Manger	58
Total	342

Respectfully submitted,

WILLIAM H. STUCKY,
Lieutenant,
Instructor in Pistol Practice.

ANNUAL REPORT

OF THE

OPERATION OF THE

POLICE SIGNAL SYSTEM

ANNUAL REPORT

OF THE

OPERATION OF THE

POLICE SIGNAL SYSTEM

NEWARK, N. J., January 31, 1914.

To the Honorable Board of Police Commissioners of the City of Newark, New Jersey:

GENTLEMEN:—We beg to submit the following report of the working of the Police Signal System for the year ending December 31st, 1913:

The same methods of general inspection and maintenance of lines and equipment that has been pursued in former years was continued during 1913, and all station and box equipment and all aerial lines are in good working condition.

The underground cables are not all in perfect condition, as some show poor insulation, and it may be necessary to replace several sections with new cable during the coming year.

In July we received six (6) polarized box bells from the Gamewell Company, New York, and same were used to replace defective bells in signal boxes.

During the year we received and completed orders from your Board for special work as follows:

February 27th, your order No. 7172 to move signal box No. 32 from Cherry and Canal streets to South and Jefferson streets, furnish the necessary crossarms and wire to connect same, also to remove aerial wire on Canal street from Mulberry to Cherry streets. Used 5,120 feet of insulated copper No. 12, and 100 feet of twisted pair wire. We also removed 1,450 feet of dead wire on Canal street. Order was completed April 4th.

February 27th, your order No. 7173 to place signal box No. 6 to the corner of 19th street and 11th avenue, furnish all the necessary crossarms and wire to connect same. This signal box was taken from Washington and New streets. Used 11,000 feet of insulated copper wire No. 12. Order was completed April 4th.

February 27th, your order No. 7174 to place signal box No. 72 at the corner of Geneva street and Helen place, furnish all the necessary crossarms and wire to connect same. This signal box was taken from Central avenue and Plane street. We used 9,060 feet of No. 12 insulated copper wire. Order was completed April 4th.

Order No. 7172	used	5,220	feet of wire.	
" " 7173	"	11,000	" "	"
" " 7174	"	9,060	" "	"
	Total	25,280		
" " 7172	removed	1,450	" "	"
		23,830		
		11,915	"	circuits.

April 4th, added 2.256 miles circuit.

March 10th, your order No. 7153, to furnish and place a 12-foot octagonal pole on the northeast corner of Kinney and Broad streets, also to build a 3-foot underground branch from the manhole to the pole, and furnish wire test box and the necessary 5-pair cable to run from the manhole to the test box and loop in underground cable running east and west on Kinney street. We also moved the signal box from the southwest to the northeast corner of Kinney and Broad streets and connected same, also removed aerial wire on Kinney street, between Halsey and Broad streets.

Removed on Kinney street	1,600	feet of wire.
Used 120 feet of cable	480	" " "
Removed	1,120	" " "

Order completed July 7th.

In May we received eight (8) Police Signal Boxes from the Gamewell Co., of New York.

In May we received your order No. 7324 to furnish the necessary crossarms and wire to connect the new signal boxes as follows:

Installed Signal Box No. 12 at Clinton Avenue and Eighteenth Street; strung four (4) wires to top of pole and connected on circuit.

Installed Signal Box No. 13 at Bergen Street and Avon Avenue; strung four (4) wires to the top of the pole and connected on circuit.

Installed Signal Box No. 14 at Avon and Belmont Avenues; strung four (4) wires from the pole on the southwest corner to the pole on the northwest corner of Belmont and Avon Avenues and connected on four dead

police wires running west on Avon Avenue; then connected on police circuit at Pennsylvania Railroad crossing and Avon Avenue.

Installed Signal Box No. 41 at Belmont and Hawthorne Avenues; strung four (4) wires from Belmont and Hawthorne Avenues, along Belmont Avenue to Watson Avenue, connected on police circuit on Watson Avenue.

Installed Signal Box No. 42 at Chancellor and Maple Avenues; strung four (4) wires from the police circuit at Clinton Place and Lyons Avenue, along Lyons Avenue to Maple Avenue, along Maple Avenue to Chancellor Avenue, and connected Signal Box.

Installed Signal Box No. 15 on the corner of Madison Avenue and 13th Street; strung four (4) wires from police circuit on 14th Street and Madison Avenue, along Madison Avenue to 13th Street and connected signal box. Used 13,840 feet of No. 12 copper wire and 600 feet of twisted pair wire. Order completed July 7th.

May 9th, your order No. 7325 to furnish all the necessary crossarms and wire, and strung four (4) wires from South Orange and Sanford Avenues, along Sanford Avenue to Abbottsford Avenue; installed and connected Signal Box No. 5.

Also installed Signal Box No. 7 at Brookdale Avenue and Abinger Place, and strung four (4) wires along Brookdale Avenue to South Orange Avenue, connecting on circuit on South Orange Avenue.

Used 10,170 feet of No. 12 insulated copper wire, 400 feet twisted pair wire. Order completed July 7th.

May 9th, your order No. 7326, to furnish the necessary crossarms and wire to move Signal Box No. 61 from

Sherman Avenue and Wright Street to Elizabeth Avenue and Runyon Street, we strung four (4) wires from Elizabeth to Sherman Avenues on Runyon Street to connect on police circuit on Sherman Avenue. We also moved Signal Box No. 116 from Frelinghuysen Avenue, south of Lehigh Valley Railroad crossing, to the north of the Lehigh Valley Railroad crossing on Frelinghuysen Avenue, and strung four (4) wires along the Lehigh Valley Railroad from Frelinghuysen Avenue to Sherman Avenue to connect on police circuit on Sherman Avenue.

Used 4,400 feet of No. 12 insulated copper wire and 300 feet of twisted pair wire. Order completed July 7th.

Order No.	7324	used	15,040	feet	of	wire.
" "	7325	"	10,970	"	"	"
" "	7326	"	5,000	"	"	"
			31,010	"	"	"
" "	7173	removed	1,120	"	"	"
			29,890	"	"	"
			14,945	"	circuit.	

July 7th, added 2.830 miles of circuit.

On May 9th your order No. 7327 to furnish material and construct a 3-inch underground branch at Springfield Avenue and Boyd Street, from the manhole on Springfield Avenue to ten feet inside the curb line on Boyd Street; this was made necessary on account of the paving of Springfield Avenue. This order was completed June 10th.

On June 6th your order No. 7418 to replace a section of defective underground cable from the manhole to the pole on the corner of Ferry and Merchant Streets. Cable was furnished by the Police Department. Order completed June 12th.

On June 3rd your order No. 7400 to furnish material and construct a 3-inch underground branch from the manhole at Springfield and Belmont Avenues to the pole on the southwest corner of Springfield and Belmont Avenues, furnish iron test box and 220 feet of cable to loop in underground cable running east and west on Springfield Avenue; placed and connected Signal Box No. 27 in the underground cable. Also removed aerial wires along Belmont Avenue to Kinney Street, along Kinney Street to Broome Street.

Removed	7,200 feet of wire.
220 feet of cable	2,200 " " "
	5,000
Removed	2,500 feet of circuits.

Order completed August 20th.

On July 22nd, your order No. 7511, to furnish the necessary crossarms and wire, and run four (4) wires from circuit at Centre and Front streets, along Centre street to Park place, also move signal box No. 24 from Mulberry and River streets to Centre street and Park place. We removed wire running from the foot of Centre street to River and Mulberry streets.

Used	2,500	feet of wire.
Removed	840	" " "
	1,660	
Additional wire	830	" circuits.
Order No. 7400 removed	2,500	" "
" " 7511 new wire	830	" "
Removed	1,670	" "
August 20th, deduct	.316	miles "

On October 28th, your order No. 7741, to replace a defective section of underground cable with new cable from the manhole to the pole on the corner of Broome street and Springfield avenue. Old cable was returned to the First Precinct for your disposal. Order was completed November 13th.

On November 13th, your order No. 7777 to change three (3) police wires running on the east side of the Pennsylvania Railroad tracks from Lafayette to Hamilton street, and crossing over the railroad tracks at Hamilton street to run under the archway at Lafayette street and along the west side of the railroad tracks to Hamilton street. This was made necessary to avoid any danger by the wires as complained of by the Pennsylvania Railroad Company.

Our desire is to keep the equipment in the best possible condition and thereby keep the service at the highest standard of efficiency, as may be seen from the following table of trouble reported during the year:

Month	Signal Troubles	Telephone Troubles
January	9	7
February	16	6
March	13	6
April	10	4
May	18	9
June	12	3
July	11	8
August	29	5
September	24	4
October	14	10
November	10	3
December	14	4
	130	69

Average signal troubles per month.....15.
Average telephone troubles per month.... 5.75

There are now 233 signal boxes in service in the system, therefore the number of signal troubles for the entire year is less than one (1) per box.

Total miles of circuits, December 31, 1912....	236.757
Total miles of circuits added April 4.....	2.256
Total miles of circuits added July 7.....	2.830
	241.843
Total miles of circuits removed August 20..	.316
Total miles of circuits, December 31, 1913....	241.527
Total miles of aerial wire, December 31, 1912..	188.563
Total miles of aerial wire added during 1913..	9.540
Total miles of aerial wire, December 31, 1913..	198.103

The following is a complete list of instruments, poles, boxes, wires, etc., in service in connection with the system:

6	Central Office desks.
6	Stable desks.
233	Signal boxes.
236	Sets of telephones.
414	Gravity batteries.
61	Le Fuller batteries.
36	Dry batteries.
198.103	Miles H. D. insulated copper wire, No. 12.
120	Chestnut poles.
57,367	Feet of underground cable.
2,640	Feet of aerial cable.
21	Telephone circuits.
21	Signal circuits.
74	Iron test boxes.
11	Wooden fuse boxes.

The locations of the signal boxes are as follows:

FIRST PRECINCT.

Box No.	Location.
3	William and Plane Streets.
4	Market and Arlington Streets.
5	Academy and Plane Streets.
7	Broad and Commerce Streets.
12	Halsey and Academy Streets.
13	Market and Halsey Streets.
14	Market and Washington Streets.
15	High and Academy Streets.
16	High and New Streets.
17	Warren and Plane Streets.

FIRST PRECINCT (Continued).

Box No.	Location.
21	Broad and Court Streets.
22	Market and Mulberry Streets.
23	Canal and Mulberry Streets.
24	Centre Street and Park Place.
25	River and Canal Streets.
26	Market and Alling Streets.
27	Market and Ward Streets.
31	Beaver and Market Streets.
32	Front and Centre Streets.
34	Hamilton and Ward Streets.
35	Green and Mulberry Streets.
36	Mulberry and Lafayette Streets.
37	Mulberry and Walnut Streets.
38	Chestnut Street and N. J. R. R. Avenue.
41	Pennington and Orchard Streets.
42	Broad and Murray Streets.
44	Broad and Poinier Streets.
46	N. J. R. R. Avenue and Thomas Street.
51	N. J. R. R. Avenue and Cottage Street.
52	N. J. R. R. Avenue and Green Street.
54	West Kinney and Broad Streets.
62	Clinton Avenue and High Street.
63	Crawford and Washington Streets.
64	Halsey and William Streets.
71	Crawford and High Streets.
72	Lincoln Park and Pennsylvania Avenue.
112	New and Halsey Streets.
113	Nicholson and Augusta Streets.
115	Sherman Avenue and Murray Street.

SECOND PRECINCT.

Box No.	Location.
4	Bridge and Ogden Streets.
5	Fourth Avenue and Ogden Street.
6	Washington and Arlington Avenues.
7	Washington Avenue and Halleck Street.
8	Riverside and Chester Avenues.
12	Montclair and Summer Avenues.
13	Washington and Elwood Avenues.
14	Belleville Avenue and Oriental Street.
15	Riverside and Grafton Avenues.
16	Mt. Prospect and Arlington Avenues.
17	Washington and Sylvan Avenues.
18	Summer and Third Avenues.
21	Broad and Grant Streets.
22	Belleville Avenue and Crane Street.
23	Rowland Street and Bloomfield Avenue.
24	Belleville and Fourth Avenues.
25	Mt. Prospect and Bloomfield Avenues.
26	Highland Avenue and Heller Parkway.
27	Clifton and Seventh Avenues.
28	Sheffield Street and Eighth Avenue.
31	Bloomfield and Highland Avenues.
33	Bloomfield and Summer Avenues.
36	Orange and Norfolk Streets.
44	Central Avenue and Newark Street.
45	Sixth Avenue and Stone Street.
51	Lock and Warren Streets.
54	James and High Streets.
55	Sussex Avenue and Lock Street.
61	Central Avenue and Lock Street.
63	Washington and Bleecker Streets.
64	Halsey and New Streets.
65	Broad and Lombardy Streets.

SECOND PRECINCT (Continued).

Box No.	Location.
71	James and Plane Streets.
73	Central Avenue and High Street.
81	Summit and Bleecker Streets.
82	High and Orange Streets.
83	Broad and Orange Streets.
112	Passaic Avenue and Oriental Street.
113	Clark and Ogden Streets.
114	Clay and Broad Streets.
115	Cross and Ogden Streets.
116	Montclair Avenue and Ridge Street.
117	Fifth Avenue and Park Street.
118	Newark and Warren Streets.
121	Sheffield and Orange Streets.

THIRD PRECINCT.

Box No.	Location.
3	Ferry and St. Francis Streets.
4	Bowery and Chapel Streets.
5	Albert and St. Joseph Streets.
6	Bowery and Mott Streets.
7	Ferguson and Market Streets.
8	South and Jefferson Streets.
12	Passaic Avenue and Oxford Street.
13	Market and Fillmore Streets.
14	Brill and Bowery Streets.
15	Chapel Street and Lister Avenue.
16	Ferry and Lockwood Streets.
17	Ferry and Freeman Streets.
21	Elm and Adams Streets.
22	Van Buren and Malvern Streets.

THIRD PRECINCT (Continued).

Box No.	Location.
23	Houston Street and Elm Road.
24	Hamburg Place and Lafayette Street.
25	Niagara and Barbara Streets.
26	Hawkins and Horatio Streets.
27	Pacific and Garden Streets.
28	Kinney and Adams Streets.
31	Hamburg Place and Berlin Street.
32	Van Buren and Lafayette Streets.
33	Hamburg Place and Avenue L.
34	Brown Street and Lister Avenue
35	Avenue A and Miller Street.
36	Elm and Pacific Streets.
37	East Kinney and McWhorter Streets.
38	Mulberry and Emmet Streets.
41	Johnson and Hermon Streets.
42	Malvern and Pacific Streets.
43	Thomas and Dawson Streets.
44	Avenue C and Astor Street.
45	South and Mulberry Streets.
46	N. J. R. R. Avenue and Chestnut Street.
51	N. J. R. R. Avenue and Walnut Street.
52	Passaic Avenue and Van Buren Street.
53	Jackson and Downing Streets.
54	Market and Jefferson Streets.
55	Market and Jackson Streets.
61	Ferry and Market Streets.
62	Lafayette and Bruen Streets.
63	Lafayette and Jefferson Streets.
64	Ferry and Madison Streets.
71	N. J. R. R. Avenue and S. Canal Street.
72	Union and Hamilton Streets.
73	Ferry and Prospect Streets.

THIRD PRECINCT (Continued).

Box No.	Location.
112	St. Charles and Kossuth Streets.
113	George and Magazine Streets.
114	Ferry and Chambers Streets.

FOURTH PRECINCT.

Box No.	Location.
3	Springfield Avenue and Camden Street.
4	Springfield Avenue and South Tenth Street.
13	Springfield Avenue and Boyd Street.
16	Bergen Street and Seventeenth Avenue.
21	Spruce and Barclay Streets.
22	Avon and Clinton Avenues.
23	Court and High Streets.
24	Springfield and South Orange Avenues.
25	Springfield Avenue and Broome Street.
26	Kinney and Broome Streets.
27	Belmont and Springfield Avenues.
28	Springfield Avenue and Charlton Street.
31	West Street and Springfield Avenue.
32	Morton and Prince Streets.
33	Quitman and Montgomery Streets.
34	Morton and West Streets.
37	Bank Street and Fairmount Avenue.
41	Fifteenth Avenue and South Tenth Street.
42	South Orange Avenue and South Seventh Street.
43	South Orange Avenue and Hunterdon Street.
44	Fifteenth and Morris Avenues.
46	Thirteenth Avenue and South Eighth Street.
52	Fourteenth Avenue and Newton Street.
53	Wickliffe and Academy Streets.

FOURTH PRECINCT (Continued).

Box No.	Location.
54	South Orange Avenue and Jones Street.
55	High and Warren Streets.
61	Bank and Howard Streets.
62	Bank and Rutgers Streets.
63	Bank Street and Morris Avenue.
112	Lillie Street and Waverly Place.
113	Rose and Bergen Streets.
117	Avon and Belmont Avenues.
122	Wickliffe Street and Thirteenth Avenue.

FIFTH PRECINCT.

Box No.	Location.
23	Roseville and Third Avenues.
24	Bloomfield Avenue and North Seventh Street
31	Chester Avenue and Seventh Street.
32	Bloomfield Avenue and Third Street.
34	Third Street and Seventh Avenue.
36	Bank and Eighth Streets.
37	Orange Street and Roseville Avenue.
38	Roseville and Sixth Avenues.
41	Orange and Warren Streets.
42	Ninth Avenue and South Thirteenth Street.
43	Central Avenue and First Street.
45	Thirteenth Street and Sixth Avenue.
46	Ninth Avenue and Warren Street.
47	First and Orange Streets.
51	Hecker Street and Sussex Avenue.
52	Fifth Avenue and North Eleventh Street.
53	Fifth Avenue and North Fifth Street.
62	Fairmount Avenue and Bank Street.

FIFTH PRECINCT (Continued).

Box No.	Location.
64	Morris Avenue and Warren Street.
71	Central Avenue and Eighth Street.
112	Sussex Avenue and Fourth Street.
113	Norfolk and Bank Streets.
114	Norfolk Street and Central Avenue.
122	Fairmount and Central Avenues.

SIXTH PRECINCT.

Box No.	Location.
5	Clinton Avenue and Clinton Place.
6	Bergen Street and Clinton Avenue.
7	Clinton Place and Bragaw Avenue.
8	Clinton Place and Hawthorne Avenue.
12	Clinton Avenue and Eighteenth Street.
13	Avon Avenue and Bergen Street.
14	Avon and Belmont Avenues.
15	Madison Avenue and Thirteenth Street.
17	Clinton Avenue and Alpine Street.
21	Clinton Place and Lyons Avenue.
22	Osborne Terrace and Runyon Street.
23	Avon Avenue and Sixteenth Street.
24	Baldwin and Avon Avenues.
41	Hawthorne and Belmont Avenues.
42	Chancellor and Maple Avenues.
43	Frelinghuysen Avenue and Alpine Street.
52	Bergen Street and Lyons Avenue.
55	Frelinghuysen Avenue and Vanderpool Street.
61	Wright Street and Sherman Avenue.
72	Hawthorne Avenue and Fabian Place.
73	Wright Street and Clinton Avenue.

SIXTH PRECINCT (Continued).

Box No.	Location.
74	Runyon Street and Jelliff Avenue.
114	Elizabeth Avenue and Leslie Street.
115	Bragaw Avenue and Alpine Street.
116	Frelinghuysen Avenue and Lehigh Valley R. R.
117	Frelinghuysen Avenue and Weston Street.
118	Frelinghuysen Avenue and Greenwood Avenue.
121	Elizabeth and Watson Avenues.
122	Bergen Street and Watson Avenue.
123	Bergen Street and Renner Avenue.

SEVENTH PRECINCT.

Box No.	Location.
5	Sanford and Abbottsford Avenues.
6	Nineteenth Street and Eleventh Avenue.
7	Brookdale Avenue and Abinger Place.
12	South Orange and Alexander Avenues.
14	Springfield Avenue and South Fourteenth Street.
15	Springfield Avenue and South Nineteenth Street.
35	South Orange and Sanford Avenues.
38	South Orange Avenue and South Nineteenth St.
45	South Orange Avenue and South Fourteenth St.
72	Geneva Street and Helen Place.
114	Sixteenth Avenue and South Eighteenth Street.
121	Electric Park.

The underground test boxes are as follows:

Broad and Lafayette Streets.
Halsey and William Streets.
Plane and William Streets.
Halsey and Kinney Streets.
Halsey and Court Streets.

Washington and Kinney Streets.
Quitman and Kinney Streets.
Crawford and Washington Streets.
Astor Street and Clinton Avenue.
Clinton Avenue and Wright Street.
Sherman Avenue and Wright Street.
Halsey and Market Streets.
Halsey and Academy Streets.
Halsey and New Streets.
Halsey and Bleecker Streets.
Halsey Street and Central Avenue.
Central Avenue and Washington Street.
Central Avenue and Plane Street.
Central Avenue and High Street.
Central Avenue and Colden Street.
Central Avenue and Broad Street.
Broad and Lombardy Streets.
Bridge and Broad Streets.
Broad and Division Streets.
Broad and Grant Streets.
Broad and Clay Streets.
Bridge and Ogden Streets.
Broad and Commerce Streets.
Market and Washington Streets.
Springfield and Thirteenth Avenues.
Orange and Broad Streets.
Orange and Sheffield Streets.
Market and Arlington Streets.
Orange and First Streets.
Orange and Third Streets.
Orange Street and Roseville Avenue.
Orange and Fourteenth Streets.
Roseville and Sixth Avenues.
Roseville and Fifth Avenues.
Ferry and Merchant Streets.

Hamburg Place and Merchant Street.
Springfield and South Orange Avenues.
Springfield Avenue and West Street.
Springfield Avenue and Broome Street.
Springfield Avenue and Charlton Street.
Springfield Avenue and Livingston Street.
Thirteenth Avenue and Norfolk Street.
Thirteenth Avenue and Hunterdon Street.
Thirteenth and Littleton Avenues.
Belleville Avenue and Harvey Street.
Belleville Avenue and Oriental Street.
Belleville and Third Avenues.
Bigelow and Hunterdon Streets.
Market and Beaver Streets.
Market and Mulberry Streets.
James and Plane Streets.
Market and Ward Streets.
Ward and Hamilton Streets.
Market and Alling Streets.
Broad and Kinney Streets.
Belmont and Springfield Avenues.
Market and Ferry Streets.
Market and Prospect Streets.
Ferry and Prospect Streets.
Ferry and Madison Streets.
Market and Jefferson Streets.
Market and Adams Streets.
Market and Polk Streets.
Mulberry and North Canal Streets.
Front and Centre Streets.
River and South Canal Streets.
N. J. R. R. Avenue and Kinney Street.
Thirteenth Avenue and Howard Street.
Orange and High Streets.

The poles owned by the Police Department upon which are strung wires belonging to the Police Signal System are as follows:

SIZE OF POLE.	LOCATION.
35-foot,	N. W. corner Broad and Court Streets.
60-foot,	N. W. corner Murray Street and Pennsylvania R. R.
35-foot,	Murray Street, in front of No. 103.
35-foot,	South side Murray Street, 100 feet west of Austin Street.
60-foot,	N. W. corner Poinier Street and Pennsylvania Avenue.
40-foot,	N. E. corner Poinier and Broad Streets.
35-foot,	N. W. corner Murray Street and Tichenor Lane.
35-foot,	S. E. corner High Street and Clinton Avenue.
35-foot,	N. E. corner Elizabeth and Meeker Avenues.
35-foot,	East side of Elizabeth Avenue, 300 feet south of Hawthorne Avenue.
35-foot,	East side of Elizabeth Avenue, 510 feet south of Hawthorne Avenue.
35-foot,	East side of Elizabeth Avenue, 270 feet south of Hawthorne Avenue.
35-foot,	East side of Elizabeth Avenue, 150 feet south of Hawthorne Avenue.
35-foot,	East side of Elizabeth Avenue, opposite Hawthorne Avenue.
35-foot,	S. E. corner of Locust Street and Elizabeth Avenue.
35-foot,	South side of Locust Street, 110 feet east of Elizabeth Avenue.
35-foot,	South side of Locust Street, 315 feet west of Sherman Avenue.
35-foot,	South side of Locust Street, 195 feet west of Sherman Avenue.
35-foot,	South side of Locust Street, 75 feet west of Sherman Avenue.
45-foot,	N. E. corner Bergen Street and Eighteenth Avenue.
45-foot,	East side of Bergen Street, 150 feet south of Seventeenth Avenue.
45-foot,	East side of Bergen Street, front of No. 410.
45-foot,	East side of Bergen Street, front of No. 396.
45-foot,	S. E. corner of Bergen Street and Seventeenth Avenue.
25-foot,	South side of Spruce Street, in front of No. 155.
25-foot,	S. E. corner Spruce and Broome Streets.
35-foot,	N. W. corner Morton and Broome Streets.
35-foot,	N. E. corner Morton and Prince Streets.

SIZE OF POLE.	LOCATION.
35-foot,	Springfield Avenue, opposite Livingston Street.
45-foot,	N. E. corner Fifteenth and Morris Avenues.
45-foot,	East side Morris Avenue, opposite No. 321.
45-foot,	East side Morris Avenue, opposite No. 304.
45-foot,	S. E. corner Morris and Fourteenth Avenues.
45-foot,	N. E. corner South Orange Avenue and Hunterdon Street.
45-foot,	East side Hunterdon Street, in front of No. 132.
45-foot,	East side Hunterdon Street, in front of No. 144.
45-foot,	East side Hunterdon Street, in front of No. 152.
45-foot,	East side Hunterdon Street, in front of No. 160.
25-foot,	North side Twelfth Avenue, 150 feet west of Littleton Avenue.
25-foot,	S. E. corner Twelfth Avenue and Sixth Street.
25-foot,	East side of Eighth Street, opposite school.
25-foot,	East side of Eighth Street, in front of No. 84.
25-foot,	East side of Eighth Street, in front of No. 94.
25-foot,	East side of Eighth Street, in front of No. 102.
25-foot,	East side of Eighth Street, corner Twelfth Avenue.
25-foot,	East side of Eighth Street, 80 feet south of Twelfth Avenue.
25-foot,	East side of Eighth Street, 130 feet south of Twelfth Avenue.
45-foot,	West side of Third Street, in front of No. 164.
25-foot,	East side of Eighth Street, 350 feet south of Twelfth Avenue.
25-foot,	East side of Eighth Street, 300 feet south of Twelfth Avenue.
25-foot,	East side of Eighth Street, in front of No. 112.
25-foot,	East side of Eighth Street, 80 feet south of Eleventh Avenue.
45-foot,	West side of Third Street, front of No. 144.
45-foot,	West side of Third Street, front of No. 154.
45-foot,	West side of Third Street, front of No. 164.
45-foot,	West side of Third Street, front of No. 174.
45-foot,	S. E. corner Third Street and Seventh Avenue.
45-foot,	North side Fifth Avenue, 150 feet west of Clifton Avenue.
45-foot,	North side Fifth Avenue, No. 113.
45-foot,	N. W. corner Fifth Avenue and Parker Street.
30-foot,	S. E. corner Clifton and Seventh Avenues.
30-foot,	N. W. corner Belleville and Second Avenues.
25-foot,	S. E. corner Riverside and Chester Avenues.
40-foot,	S. W. corner Riverside and Grafton Avenues.

SIZE OF POLE.	LOCATION.
40-foot,	South side of Grafton Avenue, corner Washington Avenue.
40-foot,	South side Grafton Avenue, 130 feet from Washington Avenue.
40-foot,	S. E. corner Oraton Street and Grafton Avenue.
40-foot,	South side of Grafton Avenue, 150 feet east of Oraton Street.
40-foot,	South side of Grafton Avenue, 60 feet east of Erie R. R.
30-foot,	N. W. corner Montclair and Mt. Prospect Avenues.
55-foot,	S. E. corner New and Washington Streets.
25-foot,	East side of Washington Street, opposite James Street.
25-foot,	East side of Washington Street, opposite No. 19.
30-foot,	South side of Eighth Avenue, opposite No. 101.
25-foot,	S. E. corner Eighth Avenue and High Street.
30-foot,	S. W. corner of Newark Street and Central Avenue.
30-foot,	North side of Warren Street, 18 feet west of Newark Avenue.
40-foot,	S. E. corner Hecker Street and Sussex Avenue.
10-foot,	S. W. corner New and Halsey Streets.
10-foot,	N. E. corner Central Avenue and Washington Street.
35-foot,	Avenue A, 75 feet north of Miller Street.
10-foot,	Market Street, opposite Arlington Street.
10-foot,	Market Street, opposite Alling Street.
10-foot,	S. W. corner Broad and Orange Streets.
10-foot,	N. E. corner Kinney and Broad Streets.
10-foot,	S. W. corner Canal and River Streets.
10-foot,	S. W. corner Market and Ward Streets.
30-foot,	North side of Augusta Street, 60 feet east of Shipman Street.
30-foot,	N. E. corner Nicholson and Augusta Streets.
30-foot,	S. E. corner Elm Road and Sanford Street.
30-foot,	South side of Elm Road, 150 feet east of Sanford Street.
30-foot,	South side of Elm Road, 400 feet east of Sanford Street.
30-foot,	South side of Elm Road, 600 feet east of Sanford Street.
30-foot,	South side of Elm Road, 750 feet east of Sanford Street.
30-foot,	S. W. corner Elm Road and Oliver Street.
30-foot,	N. E. corner Elm Road and Houston Street.
30-foot,	S. E. corner Van Buren Street and Passaic Avenue.
30-foot,	East side of Van Buren Street, 100 feet north of Market Street.
30-foot,	S. W. corner Pacific and Garden Streets.
35-foot,	North side of Warwick Street, front of No. 26.
35-foot,	North side of Warwick Street, front of No. 42.

SIZE OF POLE.	LOCATION.
35-foot,	S. W. corner Jefferson and Warwick Streets.
45-foot,	South side of Barbara Street, in front of No. 10.
45-foot,	South side of Barbara Street, in front of No. 20.
45-foot,	South side of Barbara Street, in front of No. 30.
45-foot,	South side of Barbara Street, in front of No. 48.
45-foot,	S. E. corner of Barbara and Niagara Streets.
40-foot,	North side of Kossuth Street, 100 feet east of St. Francis Street.
40-foot,	N. W. corner of St. Charles and Kossuth Streets.
40-foot,	North side of George Street, 105 feet west of St. Francis Street.
40-foot,	S. E. corner of George and Magazine Streets.
40-foot,	South side of George Street, 40 feet west of Maine Street.
40-foot,	S. W. corner Albert Avenue and Joseph Street.
40-foot,	South side of Albert Avenue, 50 feet east of Catherine Street.
40-foot,	South side of Albert Avenue, 25 feet west of Catherine Street.
40-foot,	S. E. corner of Albert Avenue and Cornelia Street.
40-ooot,	South side of Albert Avenue, rear Esther Street.
10-foot,	Bridge and Broad Streets.
10-foot,	Mulberry and Market Streets.
10-foot,	William and Halsey Streets.

During the coming year the system will be maintained at the same high standard of efficiency as in past years, and we trust that we will continue to enjoy the same cordial relations with all Members of the Board.

Respectfully submitted,

I. J. THORP,

Division Plant Superintendent.

ANNUAL REPORT

OF THE

INSURANCE FUND COMMISSSION

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

ANNUAL REPORT

OF THE

Insurance Fund Commission

DECEMBER 31 1913

RECEIPTS.

Balance on hand December 31, 1912	$ 7,668.68
Interest on Bank Deposits	139.08
Interest on Temporary Loans	5,900.00
Premiums	24,927.16
Returns and Refunds	224.84
Received from Fire Losses	139.48
Permanent and Temporary Loans	95,000.00
	$133,999.24

DISBURSEMENTS.

Premiums	$ 13,570.64
Salary	1,200.00
Balance on hand	8,856.93
Fire Losses	371.67
Permanent and Temporary Loans	110,000.00
	$133,999.24

ASSETS.

Permanent and Temporary Loan Bonds City of Newark.	$ 155,000.00
Premiums due Commission	10,875.35
Cash on hand	8,856.93
	$ 174,732.28

(Net assets December 31, 1912, $159,749.11, showing an increase of $14,983.17.)

INSURANCE CARRIED IN OUTSIDE COMPANIES.

Fire Insurance	$1,869,300.00
Automobile Fire and Theft Insurance	39,600.00
Boiler Liability Insurance	174,000.00
Elevator Liability Insurance	10,000.00
Automobile Liability Insurance	60,000.00
	$2,152,900.00

INSURANCE CARRIED BY FUND.

Schools	$4,380,500.00
Fire Department	581,500.00
Police Department	310,500.00
City Home	129,000.00
Street and Water	87,900.00
Library	151,000.00
Shade Tree	3,700.00
Health	55,000.00
Public Buildings	968,450.00
Dental Clinic	1,000.00
Centre Market	40,500.00
Outing	3,200.00
Playgrounds	1,000.00
Automobile Fire and Theft Insurance	6,000.00
	$6,719,250.00

(Insurance carried December 31, 1912, $3,976,450.00, showing an increase of $2,742,800.00.)

TYLER PARMLY, *President.*

JAMES A. ROWE, *Treasurer.*

JAMES R. BYRNE, *Secretary Insurance Fund Commission.*

THE NEWARK CITY TUBERCULOSIS SANATORIUM VERONA, NEW JERSEY

ANNUAL REPORT

OF THE

Department of Health

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

MEMBERS OF THE BOARD OF HEALH

OF NEWARK, NEW JERSEY

FOR THE YEAR 1913

Dr. H. C. H. HEROLD.....1012 Broad Street
Dr. THEODORE W. CORWIN.....146 Second Avenue
Dr. J. T. WRIGHTSON.....25 Walnut Street
Mr. JOHN H. McLEAN.....259 South Tenth Street
Mr. CHARLES W. BAKER.....234 Roseville Avenue
Dr. GEORGE L. WARREN.....77 Houston Street
Mr. TIMOTHY F. FOYLE.....326 Warren Street
Dr. FRANK B. MEEKER.....63 First Street
Mr. OTTO B. SCHALK.....455 Fourth Avenue
Mr. CHARLES L. WHITFIELD.....384 Summer Avenue

HEALTH OFFICER.

Mr. DAVID D. CHANDLER.....376 Roseville Avenue

STANDING COMMITTEES OF THE BOARD OF HEALTH

FOR THE YEAR 1913

SANITATION.

DR. MEEKER — MR. FOYLE
DR. CORWIN
MR. BAKER — MR. MCLEAN

FINANCE.

MR. MCLEAN — MR. SCHALK
MR. WHITFIELD

LAWS AND ORDINANCES.

MR. WHITFIELD — MR. FOYLE
MR. BAKER

RULES.

DR. CORWIN — DR. WARREN
DR. WRIGHTSON

APPOINTMENTS.

MR. FOYLE — MR. SCHALK
MR. WHITFIELD

SUPPLIES.

MR. SCHALK — MR. MCLEAN
MR. BAKER

CITY HOSPITAL.

DR. WRIGHTSON — DR. WARREN
DR. MEEKER
MR. FOYLE — MR. MCLEAN

TRAINING SCHOOL.

Dr. Corwin — Dr. Warren
Dr. Wrightson
Dr. Meeker — Dr. Herold

TUBERCULOSIS SANATORIUM.

Dr. Warren — Mr. Foyle
Dr. Corwin
Dr. Wrightson — Mr. Baker

FOOD AND DRUGS.

Mr. Schalk — Mr. Baker
Dr. Corwin — Mr. McLean

SEX HYGIENE AND SOCIAL ETHICS.

Dr. Herold — Mr. Schalk
Dr. Warren — Mr. McLean

PURCHASING.

Mr. Whitfield — Mr. Schalk
Dr. Warren — Dr. Meeker

MEETINGS

The regular meetings of the Board are held on the First and Third Tuesdays of each month at 8:30 P. M. The meeting on the First Tuesday shall be held for the transaction of all business pertaining to the Sanitary Department. The meeting of the Third Tuesday shall be held for the transaction of all business pertaining to the Newark City Hospital and Newark City Sanatorium.

The regular meetings of the Sanitary Committee will be held on the Thursday preceding the first Tuesday of each month at 8:30 P. M.

Should the above meeting fall on a legal holiday, then said meeting shall be held on the day previous.

EMPLOYEES OF THE BOARD OF HEALTH

OFFICE DIVISION.

JOHN J. GREENE.....*Clerk, Bureau Contagious Diseases*
308 Riverside Avenue.

W. J. BUEHLER.....*Bookkeeper*
542 Sanford Avenue.

WILLIAM H. YOUNG.....*Clerk, Sanitary Division*
673 Summer Avenue.

ELBERT S. BALL.....*Clerk, Sanitary Division*
226 South Tenth Street.

MISS ROSE KENNEDY.....*Stenographer to Health Officer*
26 Monmouth Street.

ROBERT F. MORGAN.....*Stenographer and Clerk*
133 West Kinney Street.

MISS JENNIE MCNALLY.....*Telephone Operator*
135 Renner Avenue.

MISS CORA B. NATHAN.....*Clerk*
375 Walnut Street.

EDWARD E. WORL, M. D.*Superintendent, Bureau Contagious Diseases*
271 High Street.

HERBERT B. BALDWIN.....*Chemist*
927 Broad Street.

WILLIAM WIENER.....*Meteorologist*
62½ Nelson Place.

BACTERIOLOGICAL DIVISION.

DR. R. N. CONNOLLY.....*Bacteriologist*
City Hospital Building.

DR. THOMAS RIPLEY.....*Assistant Bacteriologist*
101 Hillside Avenue.

DR. H. A. TARBELL.....*Second Assistant Bacteriologist*
87 Hillside Avenue.

JOHN OLIVER.....*Porter*
City Hospital.

JOHN A. DUNN.....*Culture Collector*
65 South Seventh Street.

WILLIAM J. FOYLE.....*Culture Collector*
142 Hudson Street.

SANATORIUM FOR TUBERCULOSIS.

DR. JOHN L. MEEKER.....*Medical Director*
EDITH RILEY.....*Superintendent and Head Nurse*
GENEVIEVE KETCHAM HEROLD.....*Nurse*
MARY E. ROSE.....*Nurse*
OSCAR A. HEROLD.....*Clerk*
GEORGE M. DENMAN.....*Engineer*
MARY DEVINE.....*Cook*
BERNARD LAWRENCE.....*Assistant Cook*
KATHERINE BRADLEY.....*Maid*
FORTUNA CATHERINO.....*Maid*
ANTOINETTE CARBONE.....*Waitress*
KATE FOX.....*Laundress*
JENNIE LAVENT.....*Laundress*
LILLIAN EMORY.....*Laundress*
GEORGE RICHELO.....*Orderly*
AUGUST POLESTEN.....*Helper*
MICHAEL LEVANT.....*Stableman*

CITY DISPENSARY.

WILLIAM A. SMITH.....*Apothecary*
40 Nelson Place.

HENRY A. OLTMAN.....*Assistant Apothecary*
348 Thirteenth Avenue.

LEO J. McMANUS.....*Dentist*
240 Mulberry Street.

ANNA BRIDGETT.....*Nurse*
23 Nelson Place.

PAYSACH G. SPAN.....*Janitor*
357 Washington Street.

DISTRICT PHYSICIANS.

*DR. P. G. HOOD.....350 Clinton Avenue
*DR. F. W. PINNEO.....199 Garside Street
DR. CHARLES F. HILL.....51 Hamburg Place
DR. CHARLES L. O'NEILL.....11 North Seventh Street
DR. DON A. EPLER.....82 Congress Street
*DR. SAMUEL HIRSCHBERG.....145 South Orange Avenue
*DR. LOUIS WEISS.....544 Springfield Avenue
*DR. W. F. L. RODEMANN.....2 Stratford Place
*DR. O. G. MATHEKE.....5 Fourth Street
DR. MEYER JEDEL.....125 Fourth Street
DR. MARY E. BROADNAX.....18 Elizabeth Avenue
DR. WILLIAM C. FISCHER.....862 South Orange Avenue

SANITARY DIVISION—MEAT INSPECTORS.

WERNER RUNGE.....130 Union Street
DANIEL KUHN.....882 South 17th Street

PLUMBING INSPECTORS.

JOHN B. SULLIVAN, *Chief*.....204 Second Street
JOHN L. WHEALAN.....120 Lincoln Avenue
EDWARD P. COULSTON.....375 Walnut Street
CHARLES A. HALLGRING.....376 Walnut Street
ANDREW J. McGOOKIN.....510 South 17th Street
JACOB KULL.....204 Belmont Avenue

* Suspended from duty August 1st, 1913.

FOOD AND DRUG INSPECTORS.

SAMUEL G. SHARWELL, *Chief*.....69 South 7th Street
BERNARD J. CAHILL.....160 South Tenth Street
*WILLIAM S. WEBB.....96 Alpine Street

*LOUIS E. BOUTILLIER.....127 South Seventh St.
* Detailed as Food and Drug Inspectors.

INSPECTOR NURSES.

MRS. LOUISE RICHARDS WHEATON.....23 Ninth Avenue
MISS LAVINIA M. WARD.....757 Mt. Prospect Avenue

DETAILED INSPECTORS TO HEALTH OFFICER.

ANDREW J. BRADY.....49 Seymour Avenue
CHARLES F. CONRAD.....232 South Sixth Street

SANITARY INSPECTORS.

*WILLIAM H. LYLE.....227 South Sixth Street
*FORMAN J. REYNOLDS.....20 Rector Street
CHARLES H. BURKE.....125 Union Street
HUBERT O'ROURKE.....128 Milford Avenue
ANTONIO PANZERA.....95 Madison Street
PATRICK J. KEATING.....111 Bergen Street
GEORGE A. VAN HOUTEN.....716 Bergen Street
WILLIAM HOPPER.....142½ Sherman Avenue
JAMES WHELAN.....193 Parker Street
HENRY MACDONALD.....29 Vermont Avenue
CASPAR BENZ.....34 Fifth Street
EDWARD J. FLYNN.....67 First Street
CHARLES E. DEVINE.....58 Beverly Street
HOWARD HUFFERT.....106 South Eighth Street
ALBERT BREIDENBACH.....858 Bergen Street
PATRICK J. BROGAN.....105 Fourth Street
JOSEPH A. MCGUIRE.....156 Norfolk Street
ADOLPH O. ELSASSER.....746 South Nineteenth Street
GUSTAVE FRIEDMAN.....431 South 11th Street
CLARENCE J. PALMER.....498 12th Avenue

* William H. Lyle, retired—September 1st, 1913.
* Forman J. Reynolds, retired—January 1st, 1913.

DISINFECTING CORPS.

SAMUEL KNOTT, *Chief*.....279 Plane Street
HIRAM R. STEWART.....59 West End Avenue
LEONARD V. GILLEN.....24 Orchard Street
THOMAS F. NEWTON.....17 Rowland Street
RICHARD J. CORBELLY.....189 Highland Avenue
THOMAS MULLIGAN.....17, Stanton Street
*MORRIS SEIDL.....413 South 8th Street
GEORGE W. GILMORE.....169 Ridgewood Avenue
IRWIN C. DAKIN.....45 Eleventh Avenue
JAMES J. WATERS.....325 Walnut Street
FRED W. NICHOLS.....118 Ninth Avenue
ADOLPH HOERNIG, *Janitor*.....62 16th Avenue
VAN S. HURLBURT, *Porter*.....46 Nelson Place

MEDICAL INSPECTORS OF PAROCHIAL SCHOOLS.

*—DR. H. C. POVEY.....89 Mott Street
*—DR. H. G. MCBRIDE.....248 Mulberry Street
*—DR. M. J. COFFEY.....216 Bank Street
*—DR. PATRICK J. CLARK.....235 South 18th Street
*—DR. D. R. CAMPBELL.....38½ Walnut Street

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* Detailed to do duty at City Dispensary.
*—Suspended from duty August 1st, 1913.

DISTRICT PHYSICIANS—1913

1st DISTRICT—DR. PHILIP G. HOOD—District Lines: Polk Street, Lafayette Street, Hamburg Place, Thomas Street and Passaic River.

2nd DISTRICT—DR. CHAS. F. HILL—District Lines: Polk Street, Lafayette Street, Hamburg Place, Thomas Street, Newark Bay, City Line, Avenue "D," Pacific Street, Clifford Street, Jefferson Street and Passaic River.

3rd DISTRICT—DR. DON A. EPLER—District Lines: Jefferson Street, Clifford Street, Pacific Street, Tichenor Street, Broad Street, Market Street, Railroad Place and Passaic River.

4th DISTRICT—DR. CHARLES L. O'NEILL—District Lines: Railroad Place, Market Street, Broad Street, Lincoln Park, Spruce Street, High Street, Central Avenue, Fulton Street and Passaic River.

5th DISTRICT—DR. FRANK W. PINNEO—District lines: High Street, Warren Street, Newark Street, Richmond Street, Rankin Street, Charlton Street, Spruce Street.

6th DISTRICT—DR. SAMUEL HIRSCHBERG—District Lines: Charlton Street, Springfield Avenue, Fifteenth Avenue, City Line, Lyons Avenue, Cilnton Place, Hawthorne Avenue, Ridgewood Avenue, Livingston Street, Eighteenth Avenue and Spruce Street.

7th DISTRICT—DR. LOUIS WEISS—District Lines: Fifteenth Avenue, Springfield Avenue, Rankin Street, Richmond Street, Newark Street, Warren Street, Central Avenue and City Line.

8th DISTRICT—DR. W. F. L. RODEMANN, District Lines: High Street, Eighth Avenue, Clifton Avenue, Norfolk Street, Central Avenue, Hudson Street and Warren Street.

9th DISTRICT—DR. A. G. MATHEKE—District Lines: Central Avenue, Warren Street, Hudson Street, Norfolk Street, Clinton Avenue, Bloomfield Avenue and City Line.

10th DISTRICT—DR. MEYER JEDEL—District Lines: Fulton Street, Central Avenue, High Street, Eighth Avenue, Clifton Avenue, Bloomfield Avenue, City Line and Passaic River.

11th DISTRICT—DR. MARY E. BROADNAX—District Lines: Avenue "D," Pacific Street, Tichenor Street, Lincoln Park, Spruce Street, Eighteenth Avenue, Livingston Street, Ridgewood Avenue and City Line.

12th DISTRICT—DR. WILLIAM C. FISCHER—District Lines: South Twentieth Street, to City Line on the north, south and west sides.

DISTRICT LINES FROM AUGUST 1, 1913

1st DISTRICT—DR. CHARLES F. HILL—Adams Street, Avenue "F," Market Street, Broad Street, Fulton Street and Passaic River.

2nd DISTRICT—DR. MARY E. BROADNAX—Tichenor Street, Broad Street, Clinton Avenue, Avenue "F" and City Line.

3rd DISTRICT—DR. W. F. L. RODEMANN—Adams Street, Tichenor Street, Broad Street and Market Street.

4th DISTRICT—DR. SAMUEL HIRSCHBERG—Broad Street, Clinton Avenue, High Street, South Orange Avenue, Bergen Street, Warren Street, Sussex Avenue and Central Avenue.

5th DISTRICT—DR. WILLIAM C. FISCHER—Clinton Avenue, High Street, South Orange Avenue, Bergen Street, Warren Street and City Line.

6th DISTRICT—DR. MEYER JEDEL—Fulton Street, Central Avenue, Sussex Avenue, Warren Street and City Line.

ANTI-TOXIN AND CULTURE STATIONS

STATION	Street and Number	Telephone No.
Oscar Scholz	131 Hamburg Place	4343 Market
Samuel Singer	77 Ferry Street	1493 "
O. Von Gehren	200 Ferry Street	1367 "
L. Griesenbeck	28 Bowery Street	1590 "
Chas. Holzhauer	787 Broad Street	1312 "
E. F. Fielding	925 Broad Street	914 "
Geo. Linnett & Bro	77 Lincoln Park	3034 "
A. E. Sayre	484 Broad Street	3754 "
Chas. P. Moll	166 Central Avenue	1319 "
L. L. Staehle	169 South Orange Avenue	1539 "
J. P. Smith	315 South Orange Avenue	1514 "
P. F. Corrigan	25 Wallace Place	1391 "
C. W. Menk	106 Market Street	291 "
St. Michael's Hospital	Central Avenue and High Street	7610 "
D. Strauss	Springfield Avenue and High Street	4633 "
E. Broch	Central Avenue and High Street	3301-J "
St. Barnabas Hospital	Montgomery and High Streets	6616 "
A. Marquier	1061 South Orange Avenue	2878 "
Firemen's Pharmacy	Broad and Market Streets	4122 "
City Dispensary	Plane and William Streets	8550 "

ANTI-TOXIN AND CULTURE STATIONS—*Continued*

STATION	Street and Number	Telephone No.
First Precinct Police	Washington and Court Streets	5400 "
Second Precinct Police	Seventh Avenue	5400 "
Third Precinct Police	Van Buren Street	5400 "
Fourth Precinct Police	17th Avenue and Livingston street	5400 "
Fifth Precinct Police	Orange and Sixth Streets	5400 "
Sixth Precinct Police	Hunterdon and Bigelow Streets	5400 "
Seventh Precinct Police	998 South Orange Avenue	5400 "
F. L. Feind	76 Belmont Avenue	2494 Waverly
Emil Reichle	362 Springfield Avenue	2023 "
W. E. Moore	531 Clinton Avenue	2468 "
G. F. Tempel	210 Clinton Avenue	818 "
L. Hagney	Central Avenue and Fifth Street	1651 Br. Brook
W. R. Scudder	95 Belleville Avenue	1142 "
George Brown	289 Belleville Avenue	761 "
A. R. Bianchi	Seventh Avenue and Sheffield Street	1430 "
J. B. Foster	Seventh and Roseville Avenues	151 "
Geo. D. Foster	190 Washington Avenue	1091 "
H. J. Quinn	187 Bloomfield Avenue	269 "

CULTURE COLLECTORS

JOHN F. DUNN
65 South Seventh Street

WILLIAM J. FOYLE
142 Hudson Street

CLINICS AT CITY DISPENSARY

MEDICAL.

9 A. M. daily except Sunday.

DISEASES OF CHILDREN.

Monday, Wednesday, Friday, 10 o'clock.

SURGICAL.

Daily except Sunday, 9 o'clock.

GENITO-URINARY.

Monday and Thursday, 10 o'clock.

DISEASES OF WOMEN.

Tuesday and Friday, 3 o'clock.

DISEASES OF SKIN.

Tuesday and Friday, 9:30 o'clock.

DENTIST.

Monday, Wednesday, Friday, 1 o'clock.

THROAT AND NOSE.

Monday, 3 P. M.

TUBERCULOSIS.

Monday and Wednesday, 3 o'clock.

NERVE DISEASES.

Friday, 2 o'clock.

SYPHILLIS.

Wednesday, 3 P. M.

ORTHOPEDIC.

Monday, 3 P. M.

ANNUAL REPORT

OF THE

HEALTH OFFICER

FOR THE YEAR 1913

ANNUAL REPORT

OF THE

HEALTH OFFICER

To the Honorable, the Board of Health of the City of Newark, N. J.

GENTLEMEN:—I have the honor to herewith present to you my report of the workings of the various divisions of the Department of Public Health, together with the report of the Bacteriologist, Chemist, Superintendent of Brueau of Contagious Diseases, Superintendent of Newark City Sanatorium for Tuberculosis and Medical Director of the Newark City Sanatorium for Tuberculosis for year ending December 31, 1913.

SANITARY DIVISION.

The city is divided into 18 districts, patrolled by 18 inspectors, appointed by the Board of Health. Each inspector is held responsible for the sanitary condition of his district.

Inspections from Complaint Book	3,678
Inspections from Complaint Book, verified	3,100
Inspections from Complaint Book, no cause	578
Number of original inspections made	24,017
Total number of inspections made	27,695
Number of written notices served	2,347
Number of abatements from written notices	2,651
Number of verbal notices served	6,898

Number of abatements from verbal notices	6,501
Total number of abatements	9,152
Number of hours in court	175
Number of cisterns and wells inspected	137
Samples of well and cistern water examined	112
Number of wells and cisterns closed	54
Sewer connections ordered made	137
Sewer drains inspected	1,278
Sewer drains inspected to curb line	85
Cesspools inspected	168
Alleyways inspected	1,660
Alleys filthy	204
Streets needing cleaning	69
Cellars needing cleaning	1,463
Areaways needing cleaning	116
Ashes accumulation	1,004
Garbage accumulation	857
Surface drainage	137
Vacant lots in an unsanitary condition	213
Stagnant water in vacant lots	209
Defective water pipes	432
Houses filthy	68
Houses unfit for habitation	14
Slaughter house inspections	16
Slaughter houses filthy	8
Houses unprovided with privy vault or water closet	15
Houses with no water supply	221
Houses with roofs leaking	194
Storm gutters and leaders defective	583
Hydrants defective	26
Privy vaults filthy	105
Privy vaults full	89
Cesspools full	56
Privy houses dilapidated	40
Privy vaults and houses over same ordered reconstructed.	44
Privy vaults ordered cleaned and filled	147
Yards inspected	18,458
Yards in an unsanitary condition	1,889
Plumbing defective	511
Water closets defective	567
Pits under water closets defective and not watertight	120
Stables inspected, including cow-stables	3,093
Manure accumulation	868

Number of animal permits issued	99
Number of animals licensed	719
Total number of nuisances found	10,195
Total number of reinspections	12,041
Number of inspections for milk licenses	2,137
Number of inspections for chicken permits	3,400
Number of inspections for ice licenses	198
Number of inspections of public and parochial schools	1,509
Number of expectoration signs posted throughout the city	400
Number of signs containing instruction on the subject of venereal diseases, posted throughout the city	3,000
Number of stores visited in reference to food exposure	400
Number of written notices served in connection with same	121
Number of verbal notices served in connection with same	200
Number of suit cases instituted for violation of sanitary code	181
Number of cases in which penalties were imposed	13
Number of cases discontinued on payment of costs and abatement of nuisance	25
Number of cases discontinued because of change in ownership	24
Number of cases discontinued prior to summons being served—work having been done	119
Number of cases instituted by Food and Drug Inspectors	276
Number of cases in which penalties were imposed	18
Number of cases in which penalties were imposed for violation of the spitting ordinance	10
Number of cases in which penalties were imposed for violation of the ice ordinance	1
Number of stables disinfected for contagious diseases among animals, principally glanders	150
Number of blacksmith shops disinfected for contagious diseases among animals, principally glanders	142

PLUMBING DIVISION.

Plans approved	2,058
Plans rejected	119
Water tests made	1,862
Plumbing inspections made	1,608
Final plumbing inspections made	920

Smoke tests made	1,057
Sewer permits granted	1,134
Cesspool permits granted	7
Privy vault permits granted	7
Manure pit permit granted	1
Relay sewer permits granted	88
Violations served	12
Violations rectified	2
Hours in court	77
Hours devoted to Plumbing Examining Board	86

MEAT AND LIVE STOCK DIVISION.

This Division consists of two inspectors—one a Veterinarian, whose duty it is to look after slaughter houses and wholesale meat markets, and the other an experienced butcher, whose duty it is to visit all the public and private meat and vegetable markets. The following is a summary of the work performed by them during the year 1913:

VETERINARIAN.

Cattle inspected	14,380
Calves inspected	16,346
Sheep inspected	32,740
Hogs inspected	17,085
Total	80,551

CONDEMNED.

Calves	37
Carcasses of beef	20

BUTCHER SHOPS VISITED.

Centre Market visited daily.

Number of visits	8,019
Number of carcasses of beef inspected	24,899
Number of lamb and sheep inspected	79,241
Number of calves inspected	11,898
Number of hogs inspected	13,045
Total	129,083

CONDEMNED.

37 lbs. lamb.
30 lbs. link sausage.
2 boxes pork butts.
50 lbs. summer sausage.
2 bbls. peaches.
1 sheep.
8 chickens.
40 bbls. poultry.
1,383 lbs. poultry.
2 bbls. ducks.
4 bbls. rabbits.
46 boxes poultry.
2 hogs.
2½ bbls. turkeys.
8 crates cranberries.

Numerous complaints were investigated and adjusted.

DRUG AND FOOD INSPECTOR'S REPORT

The Food and Drug Department submit the following report of their work for the year 1913:

During the past year we have done very little in dairy inspection owing to a lack of funds. At the end of the year the Board adopted a new milk ordinance which is acknowledged to be among the finest in the country. With the aid of this ordinance and three years' experience in this kind of work, we expect to make Newark's supply of milk as clean as can possibly be obtained.

Complaints investigated	164
Complaints verified	87
Complaints—no cause	77
Dairies inspected	314

Dairies reinspected	21
Dairies inspected—not scored	44
Creameries inspected	4
Bottling plants inspected	20
Special inspections of soda factories	8
Special inspections of confectionery and ice cream factories	56
Special inspections of butcher shops and slaughter houses.	25
Special inspections of bakeries and restaurants	129
Special inspections of egg establishments	4
Exposed Food Violations—Verbal Notices	442
Exposed Food Violations—Written Notices	706
Exposed Food Violations—In for suit	255
Sealed milk samples to Chemist	918
Preliminary milk samples to Chemist	387
Milk samples for sediment test to Chemist	106
Cream samples to Chemist	40
Other sealed samples to Chemist	25
Milk samples to Bacteriologist	1,092
Ice cream samples to Bacteriologist	55
Sealed samples of food with State Inspector	24
Hours in court	21
Milk fines collected for year	$1,565.00
Sealed samples below standard	81
Milk fines for first offenses	55
Milk fines for watered milk	11
Milk fines for second and third offenses	3
Milk fines remitted	5
Milk fines suits pending	7

Newark's approximate daily supply of milk	118,000	Quarts
Approximate amount which is sold raw	54,000	"
Approximate amount which is sold pasteurized	64,000	"
Amount per day coming in on railroads	91,750	"
Amount per day raised in the suburbs	22,000	"
Amount per day raised in the city	4,250	"
Number of wagons selling milk here	400	
Number of stores selling milk here	925	

The following foodstuff was also condemned as unfit for human consumption:

614 quarts strawberries.
94 pints raspberries.
3 crates raspberries.
1858 cans, bottles and jars of fermented food.
43750 cans Italian tomato sauce.
312 quarts peaches.
5¾ crates eggs.
3 small baskets plums.
8 crates cranberries.
11 cans lobster.
3 barrels crabs.
1½ barrels apples.
2½ bushels apples.
34 baskets apples.
17 bunches radishes.
1 crate asparagus.
41 pounds store and Swiss cheese.
4 Italian cheeses (40 pounds).
16 quarts peas.
16 quarts onions.
22 quarts tomatoes.
20 boxes salted peanuts.
1366 bretzels and rolls.
60 slices watermelon.
1 barrel bretzels and ice cream cones.
1 crate pineapples.
100 bananas.
1 barrel pears.
1 barrel imported cherries.
7 bags potatoes.
13 cans beans.
¾ barrel sauerkraut.
31000 pounds grapes.
9 turkeys.
1052 pounds turkeys.
20 barrels turkeys.
48 chickens.
3 barrels chickens.
1694 pounds poultry.
9 barrels poultry.

2 rabbits.
1 box rabbits.
1908 pounds rabbits.
2 barrels rabbits.
3 ducks.
3 guinea hens.
1 box ducks.
4 barrels ducks.
25 quarts dried apples.

REPORT OF DETAILED INSPECTOR TO HEALTH OFFICER

FOR THE YEAR 1913

The following visits were made to the Water Sheds, Cedar Grove and Belleville Reservoirs, for the purpose of obtaining samples of our city water supply for bacteriological and chemical examinations:

Number of visits to watersheds	35
Number of visits to Cedar Grove	36
Number of visits to Belleville Reservoir	37

Samples of city water supply taken at the following places and delivered to Bacteriologist:

Oak Ridge Stream	23
Clinton Stream	23
Kanouse Brook	23
Echo Lake Stream	23
Macopin Intake	23
Cobb's Brook	1
Brown's Brook	1
Meter below Macopin Intake	1
Cedar Grove Reservoir	49
Belleville Reservoir	44

Board of Health Office	23
From wells in city	28
From well and streams city of Newfoundland, N. J.	8
Oak Ridge Stream	1
Total	273
Samples of ice taken from streams in Westfield, N. J.	2
Samples of milk taken in city of Newfoundland, N. J.	1
Total	275

Samples of water taken at the following points of our city water supply, and delivered to Mr. Baldwin, Chemist:

Oak Ridge Stream	12
Clinton Stream	12
Kanouse Brook	12
Echo Lake Stream	12
Macopin Intake	12
Cedar Grove Reservoir	24
Belleville Reservoir	12
From wells in city	2
Total	98

On return trips from the Water Sheds on January 7th and 14th, December 10th and 23rd, the toilets on the Susquehanna Railroad cars were open. On all other trips the toilets were closed.

Number of inspections made	243
Number of inspections made with other inspectors	62
Total	305

In addition to the above several places in and around the Water Sheds were inspected. Also cemeteries, public baths, lodging houses, baby farms, parochial schools, daily excursion boats, motion picture theatres, dance halls and poultry markets were inspected and reported upon.

Numerous complaints were investigated and adjusted.

REPORT OF DETAILED INSPECTOR TO HEALTH OFFICER—1913

INSPECTION OF SUSPECTED CASES OF RABIES.

Number of persons bitten by dogs	597
" " persons bitten by cats	14
" " dogs bitten by dogs	101
" " cats bitten by dogs	2
" " original inspections	609
" " reinspections	673
" " final inspections	653
" " dogs destroyed	105
" " cats destroyed	25
" " dogs sent to Humane Society and Dead Animal Contractor and destroyed	104
Number of cats sent to Humane Society and Dead Animal Contractor and destroyed	6
Number of dogs and cats under observation during year	574
" " hours in court	35
Total number of inspections made	1,922

REPORT OF DISINFECTING CORPS—1913

HOUSES QUARANTINED.

Diphtheria, including Membranous Croup, placarded	1,658
Scarlet Fever, placarded	931
Typhoid Fever, not placarded	214
Cerebro Spinal Meningitis, not placarded	17
Infantile Paralysis, not placarded	23
Total number of houses	2,843

DISINFECTIONS.

Diphtheria, including Membranous Croup	1,336
Scarlet Fever	879
Tuberculosis	391
Cerebro Spinal Meningitis	14
Infantile Paralysis	15
Specials	1,218
Total number of houses	3,853

Number of rooms disinfected	12,258
" " cubic feet air space	12,258,000
" " control tests made	1,442
" " visits to houses under quarantine	2,824
" " nuisances found existing	99
" " funerals supervised	42

REPORT OF INSPECTOR NURSES FOR YEAR 1913.

Number of visits	3,473
" " patients now on hand	3,687
" " new patients	576
" " patients sent to hospitals	120
" " houses reported for disinfection	73
" " houses reported for sanitary inspection	18
" " deaths	85

CITY DISPENSARY AND OUTDOOR POOR CONTINGENT

PERSONS TREATED AT THE FOLLOWING CLINICS

MONTH	Medical	Surgical	Skin Diseases	Children's Diseases	Diseases of Women	G. U. Organs	Throat and Nose	Nervous	Tuberculosis	Vaccinations	Teeth Extracted	Orthopedic	Total Number Treated	Clinical Prescript's
January	984	898	276	156	98	263	15	207	174	20	96	....	3,187	4,202
February	814	915	286	129	90	286	24	252	193	30	106	....	3,125	4,118
March	860	823	244	118	89	265	16	205	215	54	120	....	3,009	4,130
April	762	728	315	124	78	350	4	137	211	90	97	3	2,899	4,604
May	694	577	295	140	121	568	29	139	190	52	103	....	2,910	3,906
June	765	659	262	194	103	481	27	113	174	40	114	9	2,914	4,022
July	905	686	297	269	94	454	52	106	198	12	108	5	3,186	4,544
August	862	605	311	250	185	389	65	120	210	25	97	1	3,120	4,382
September	898	568	285	210	140	460	30	114	274	30	109	6	3,124	4,308
October	693	707	355	170	84	444	44	147	264	23	98	4	3,033	4,216
November	781	571	329	163	67	432	65	169	163	20	114	8	2,882	3,740
December	646	487	271	165	61	399	91	93	200	13	97	7	2,648	3,505
Totals	9,664	8,224	3,526	2,088	1,210	4,791	462	1,802	2,466	409	1,259	43	36,037	49,677

Number of Syphilitic cases treated, 112.

PATIENTS SENT TO THE FOLLOWING HOSPITALS.

MONTH	City	St. Michael's	St. Barnabas'	St. James'	German	Beth Israel	Women's and Children's	Crippled Children	Eye and Ear Infirmary	Babies' Hospital	Eighth Ave. Day Nursery	Tuberculosis Sanitarium	Total
January	60	6	10	8	11	3	2	4	14	8	0	16	142
February	39	6	11	6	13	14	5	0	13	15	0	17	139
March	61	10	9	5	9	8	3	1	12	21	0	14	153
April	63	4	13	8	10	11	7	2	6	23	1	22	170
May	75	5	8	4	8	4	4	3	11	10	0	16	148
June	72	7	7	4	9	4	4	0	13	25	0	20	165
July	59	6	16	6	9	5	7	0	5	48	2	12	175
August	44	6	6	7	5	5	4	0	4	24	1	10	116
September	38	3	8	5	4	11	5	4	10	26	1	9	124
October	43	3	6	7	6	8	3	1	10	16	0	8	111
November	52	6	11	11	11	11	5	0	7	16	1	14	145
December	46	3	10	4	11	12	4	1	18	8	0	13	130
Totals	652	65	115	75	106	96	53	16	123	240	6	171	1,698

NUMBER OF DISTRICT PRESCRIPTIONS DISPENSED.

DISTRICT	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
First	37	59	60	56	24	25	62	50	32	29	44	11	489
Second	22	49	88	39	17	17	62	27	28	18	24	4	395
Third	41	29	64	57	26	24	42	49	22	13	30	4	401
Fourth	31	22	47	21	10	21	40	20	32	11	7	16	278
Fifth	4	24	48	35	18	13	47	19	21	12	12	7	260
Sixth	8	23	41	35	14	10	34	26	17	8	18	1	235
Seventh	7	22	62	30	5	3	32	24	9	18	23	0	235
Eighth	54	12	50	63	14	29	0	0	0	0	0	0	222
Ninth	36	18	43	33	24	26	0	0	0	0	0	0	180
Tenth	59	25	38	39	49	27	0	0	0	0	0	0	237
Eleventh	58	45	54	48	54	36	0	0	0	0	0	0	295
Twelfth	50	55	83	46	68	37	0	0	0	0	0	0	339
Totals	407	383	678	502	323	268	319	215	161	109	158	43	3,566

RECAPITULATION.

Total number of patients treated	36,024
Total number of prescriptions	53,243
Total number of patients sent to hospitals	1,720

SUMMARY OF SERVICES RENDERED BY DISTRICT PHYSICIANS.

	Dr. Hood, 1st Dist.	Dr. Hill, 2nd Dist.	Dr Epler, 3rd Dist.	Dr. O'Neil, 4th Dist.	Dr. Pinneo, 5th Dist.	Dr. Hirschberg, 6th Dist.	Dr. Weiss, 7th Dist.	Dr. Rodemann, 8th Dist.	Dr. Matheke, 9th Dist.	Dr. Jedel, 10th Dist.	Dr. Broadnax, 11th Dist.	Dr. Fischer. 12th Dist.
Actual number of houses visited	102	350	647	238	216	101	577	164	131	257	210	295
Actual number of families visited	102	270	678	250	214	100	608	175	130	259	240	292
Number of sick prescribed for	102	298	706	254	244	87	670	202	123	279	298	361
Number of sick treated by others	2	4	3	3	9	9	2	5	0	1	1	16
Total number of visits made	266	266	1,203	401	391	252	1,013	359	305	464	769	584
Number sent to hospital	10	22	59	34	21	12	59	22	9	50	47	90
Number of deaths	3	7	12	0	2	4	9	3	2	3	5	5
Total	587	1,217	3,308	1,180	1,097	565	2,938	930	700	1,312	1,570	1,643

RECAPITULATION

DISTRICT	Actual Number of Houses Visited	Actual Number of Families Visited	Sick Prescribed For	Found Treated by Other Physicians	Total Number of Visits Made	Number Sent to Hospital	Number of Deaths
First	102	102	102	2	266	10	3
Second	350	350	367	6	592	32	7
Third	647	678	702	3	1,193	79	12
Fourth	238	250	254	3	401	34	....
Fifth	216	214	244	9	391	21	2
Sixth	101	100	87	9	252	12	4
Seventh	577	598	650	2	913	69	9
Eighth	164	175	202	5	359	22	3
Ninth	131	120	123	....	315	25	2
Tenth	257	259	279	....	584	54	5
Eleventh	364	240	278	1	759	52	3
Twelfth	295	292	361	16	584	90	5
Totals	3,442	3,378	3,649	56	6,609	500	55

REPORT OF MEDICAL INSPECTION OF PAROCHIAL SCHOOLS

There are twenty-three parochial schools in the City of Newark, which are divided into five districts. Five District Physicians are detailed as Medical Inspectors of Parochial Schools, whose duties are to visit the parochial schools daily between the hours of 9 and 11 A. M., and make daily reports to the Health Officer.

1st DISTRICT—DR. H. C. POVEY—Schools: St. James', Lady of Mt. Carmel, St. Benedict's, St. Aloysius', St. Mary Magdalene's.

2nd DITRICT—DR. H. G. McBRIDE—Schools: St. Columba's, St. Bridget's, St. Mary's, St. Phillip's, St. John's, St. Patrick's.

3rd DSTRICT—DR. M. J. COFFEY—Schools: St. Michael's, St. Lucy's, St. Augustine's, Sacred Heart, St. Rose of Lima's.

4th DISTRICT—DR. P. J. CLARKE—Schools: St. Joseph's, St. Antoninus', Sacred Heart, Vailsburgh.

5th DISTRICT—DR. D. R. CAMPBELL—Schools: St. Stanislaus', St. Peter's, St. Rocco's, St. Anne's.

Report of Medical Inspection of Parochial Schools for months of January, February, March, April, May, June and July, 1913:

Number of schools visited daily	23
Number of visits made during seven months	2,829
Number of pupils examined—Male	4,321
Number of pupils examined—Female	3,754
Total number of pupils examined	8,075

Number of pupils excluded from school	158
Number of physical examinations—Male	279
Number of physical examinations—Female	81
Total number of physical examinations	360
Diphtheria	2
Measles	19
Mumps	27
Skin Diseases	140
Scabies	10
Erysipelas	3
St. Vitus' Dance	2
Chicken-pox	4
Tuberculosis	5
Typhoid Fever	1
Contagious Eye Disease	21
Ringworm	24
Suppurative Ear Diseases	8
Tonsilitis	133
Bitten by dog	3
Vermin	22
Other diseases	412
Total	836
Number of vaccinations	1,703
Number of pupils advised to seek treatment	194
Class-rooms inspected	1,455
Class-rooms disinfected	9
Number of cultures taken	2

RECEIPTS AND DISBURSEMENTS

OF THE

DEPARTMENT OF HEALTH FOR YEAR 1913.

Total Receipts, 1913	$164,302.90
Total Disbursements, 1913	164,302.90
Balance available January 1st, 1914	

RECEIPTS.

Appropriations by Common Council	$149,760.08	
Penalties collected by courts	349.75	
		$150,109.83

OFFICE RECEIPTS—SANITARY DIVISION.

Animal Permits	$ 71.90	
Chicken Permits	2,234.00	
Chicken Slaughter House Permits	38.00	
Ice Licenses	600.00	
Ice License Plates	139.00	
Milk Licenses	3,132.00	
Plumbing Plan Permits	4,116.00	
Scavenger Licenses	20.00	
Scavenger Permits	3.00	
Vaccine Sales	163.42	
		$ 10,517.32

SUNDRIES—SANITARY DIVISION.

Heating Top Floors, Office Building	$ 300.69	
Fines Collected (Milk Cases)	1,501.85	
Salary Refund	11.40	
Refund Reporting Contagious Diseases	95.30	
Refund Expenses	2.50	
Refund Petty Cash	8.74	
Refund on Electric Light	41.38	
		$ 1,961.86

BACTERIOLOGICAL DEPARTMENT.

Antitoxin Sales	$ 865.00	
Bacteriological Examinations		
Rabies Treatment	135.00	
		$ 1,532.70

TUBERCULOSIS SANATORIUM.

Sale of Thermometers	$ 111.00	
Use of Telephone	9.50	
Salary Refund	4.84	
Sale of Grease	28.60	
Sale of Scrap	1.75	
Sale of Fruit	25.50	
		181.19
Total		$164,302.90

DISBURSEMENTS—SALARIES.

SANITARY DIVISION.

Health Officer	$ 5,000.00	
Clerks (5)	6,652.60	
Stenographers (2)	1,700.00	
Superintendent Bureau Contagious Diseases	1,524.00	
Chemist	2,496.00	
Telephone Operator	540.00	
Veterinarian	2,524.00	
Meat Inspector	1,000.00	
Food and Drug Inspectors (4)	5,548.00	
Detailed Inspectors (2)	3,048.00	
Chief Plumbing Inspector	1,700.00	
Plumbing Inspectors (5)	7,620.00	
Sanitary Inspectors (20)	23,425.00	
Meteorologist	120.00	
Inspector Nurses (3)	2,152.50	
Janitor	840.00	
Pathologist	250.00	
		$ 66,140.10

HEAT, LIGHT, RENT.

Coal	$ 376.25	
Wood	1.00	
Electric Light	518.34	
Gas	1.67	
Rent of Offices	3,866.56	
		4,763.82

TELEPHONES.

Offices	$ 1,282.66	
Health Officer's Residence	68.55	
		1,351.21

FURNITURE AND FIXTURES.

Ash Cans	$ 8.95	
Carpets	429.98	
Directories	22.00	
Desks and Chairs	284.00	
Hammer	.50	
Milk Case	13.00	
Map of Essex County	16.00	
Mimeograph	80.00	
Typewriters (2)	258.03	
Tables	85.50	
		1,197.96

IMPROVEMENTS AND REPAIRS.

Batteries	$ 1.00	
Repairing Chairs	8.00	
Hardware	7.51	
Repairing Locks	1.25	
Erecting Awnings	8.50	
Garden Plants	6.65	
Plumbing Work	6.10	
Varnish	6.01	
Covering Tables	25.58	
		70.60

TRAVELLING EXPENSES.

Car fares	$ 127.85	
Scoring Dairies	345.57	
Inspecting Water Sheds	144.70	
Expenses of Legislative Committee to Trenton during the session of the Legislature	221.03	
Attending Convention of American Health		

Association at Colorado Springs	350.00	
Attending Convention of American Veterinarians' Association at New York	40.00	
Attending Convention of Dairy and Milk Inspectors' Association at Chicago	100.00	
		1,329.15

JANITORS' SUPPLIES.

Sweeping Compound	$ 9.00	
Soap	2.85	
Brooms and Brushes	2.51	
Ammonia	1.18	
Sapolio	.84	
Dutch Cleanser	.50	
Gold Dust	1.14	
Pails	1.96	
Cloths	9.01	
Duster	1.75	
Mops	1.40	
Soda	.35	
Scrub Women's Services (New Building)	59.40	
		91.89

MISCELLANEOUS SUPPLIES AND EXPENSES.

Milk Tester	10.23
Bond Premium	12.00
Sprinkling Street	14.00
Lemonade	1.20
Ice License Signs	60.00
Copies of Legislative Bills	25.00
Milk License Signs	76.50
Auto Hire	27.00
Cab Hire	2.00
Spitting Signs	65.00
Advertising Ordinances	623.32
Drinking Cups (Paper)	35.60
Blueing	5.75
Badges	13.00
Printing Annual Reports	824.42
Dues, New Jersey Sanitary Association	2.00
Brass Plates	12.00
Ice	39.00

Typewriter Case	10.00	
Postage Stamps	543.04	
Auto License	9.50	
Matches	3.90	
Food Samples	19.84	
Freight and Express	6.15	
Telegrams	4.65	
Auto Supplies and Maintenance	690.46	
Towel Supply	27.75	
Printing and Stationery	2,070.90	
Twine	1.80	
Sputum Cups	39.34	
Insurance	23.40	
Inspecting Typewriters	10.75	
Flashlight	2.70	
Kerosene	1.05	
Bottles and Corks	41.87	
Lecture	25.00	
Uniform Buttons	10.00	
Reporting Contagious Diseases	970.75	
		6,360.87
Total for Sanitary Department		$ 81,305.60

DISPENSARY—SALARIES.

Apothecary	$ 2,300.00	
Assistant Apothecary	1,900.00	
Dentist	300.00	
Nurse	720.00	
Janitor	720.00	
District Physicians, 12 (6 part time)	4,560.00	
District Physicians Detailed Medical Inspectors to Parochial Schools (5), 7 months	1,400.00	
		$ 11,900.00

LIGHT AND HEAT.

Coal	$ 242.75	
Wood	9.63	
Electric Light	19.50	
Gas	11.42	
		283.30

FURNITURE AND FIXTURES.

Cushions	$ 6.00	
Filing Cabinets	50.25	
Doctors' Gowns	39.00	
		95.25

IMPROVEMENTS AND REPAIRS.

Plumbing Work	$ 25.30	
Electrical Supplies	9.58	
Repairing Lights	1.25	
Repairs to Surgical Instruments	2.75	
		38.88

MISCELLANEOUS SUPPLIES AND EXPENSES.

Drugs	$ 2,563.42	
Bandages, Plasters and Surgical Supplies	885.63	
Vaccine Points	455.00	
Ice	39.18	
Typewriter Rent	2.00	
Telephone	95.95	
Janitors' Supplies	7.71	
Towel Supply	16.27	
Laundry Work	41.41	
Disinfectants	21.64	
Printing and Stationery	268.00	
Brooms	3.50	
Tape Measure	1.67	
Expenses of Relief Nurse	7.80	
Muslin	3.25	
Bottles	28.51	
		4,440.94

Total for Dispensary $ 16,758.37

DISINFECTING CORPS—SALARIES.

Chief of Corps	$ 1,700.00	
Inspectors (10)	12,000.00	
		$ 13,700.00

MISCELLANEOUS SUPPLIES AND EXPENSES.

Disinfectants	$ 626.43	
Cotton Batting	169.99	
Car fares	2.20	
Printing and Stationery	87.50	
Burners	2.00	
Hardware	5.45	
Sponges	13.24	
Gauze	12.60	
Paste	1.00	
Bottles	11.77	
Oilers	1.00	
Repairing Generator	1.75	
Twine	1.80	
		936.73
Total for Disinfecting Corps		$ 14,636.73

BACTERIOLOGICAL LABORATORY—SALARIES.

Bacteriologist	$ 4,500.00	
Assistant Bacteriologist	1,600.00	
Second Assistant Bacteriologist	1,524.00	
Culture Collectors (2)	1,845.16	
Porter	465.00	
		$ 9,934.16

STABLE EXPENSES.

Board of Antitoxin Horses (8)	$ 2,626.43	
Horse Shoeing	141.50	
Horses (3) (Exchange)	495.00	
Disinfectant	8.84	
Boots	2.50	
		3,274.27

MISCELLANEOUS SUPPLIES AND EXPENSES.

Rabies Virus	$ 330.00
Express	6.37
Paraffin	5.00
Postage Stamps	190.00
Messenger to New York—109 trips	81.75

Antitoxin Syringes	925.00	
Guinea Pigs and Rabbits	286.75	
Filing Cabinet	10.10	
Slide Holders	18.72	
Needles	1.80	
Rubber Tubing	3.82	
Mailing Boxes	176.04	
Glass Slides	15.75	
Chemicals	15.85	
Apparatus	549.81	
Tools	2.60	
Reeds	5.50	
Repairing Incubator	61.17	
Labels	43.35	
Shellac	3.15	
Printing and Stationery	388.25	
Bottles	45.56	
		3,166.34
Total		$ 16,374.77

CHILD HYGIENE DEPARTMENT—SALARIES.

(Five months—Started August 1, 1913).

Director	$ 500.00	
Physician	125.00	
Clerk	280.00	
Nurses and Teachers (4)	980.00	
Temporary Help	111.75	
		$ 1,996.75

MISCELLANEOUS SUPPLIES AND EXPENSES.

Rent	$ 46.93
Printing and Stationery	271.63
Surgical Appliances	29.35
Advertising	15.60
Scale	13.20
Index Trays	4.00
Maps	4.00
Car Fares	24.75
Express	4 25
Postage	26.77

Chart Pins	30.00	
Seals	10.20	
Filing Cabinets	53.45	
Typewriter	50.00	
Towel Supply	1.35	
Chiffarobe	27.50	
Costumer	6.50	
Rug	20.70	
Slides	.50	
Calomel	.43	
Telephone	12.83	
Chairs	50.73	
Desk	21.00	
Surgical Supplies	2.20	
Painting	4.00	
Table	18.00	
		749.87
Total for Child Hygiene Department		$ 2,746.62

RECAPITULATION.

Sanitary Department	$ 81,305.60
Disinfecting Corps	14,636.73
Dispensary	16,758.37
Bacteriological Laboratory	16,374.77
Child Hygiene Department	2,746.62
Tuberculosis Sanatorium (see separate report)	32,480.81
	$164,302.90

REPORT

OF THE

Division of Bacteriology

REPORT OF DIVISION OF BACTERIOLOGY

Mr. D. D. Chandler, Health Officer:

Dear Sir:—Herewith is respectfully submitted the report of the Division of Bacteriology for the year ending December 31, 1913.

The routine work of the division is of such a nature that the character and amount of work performed during the year can be most easily presented in tabulated form.

The tables present a convenient method of comparing one year's work with another and a comparison of 1913 with previous years will show a marked increase in the number of specimens examined.

Three very important innovations were taken up at the laboratory last year, the first being the manufacture and distribution of typhoid vaccine; second, the examination for physicians of specimens from cases of suspected specific catarrhal infection; third, the opening of a serological laboratory under the direction of Dr. H. S. Martland for the Wassermann tests. It would seem that the action of the Board in taking these steps in advance has been appreciated by the Medical Profession, if we may judge by the number of specimens sent in for examination.

The subject of rabies in human beings and animals demanded a large measure of attention, as we find from the records that 612 persons were bitten during the year It is somewhat of a relief, however, to learn that when these cases

were carefully investigated by the detailed inspector, it was deemed necessary for only 41 persons to undergo the discomfort of taking Pasteur treatment, and these persons were almost all victims of 17 dogs that were found to be rabid.

A curious feature of the rabies question is that during May, June, July and August not a case of rabies came to our notice in Newark, and February is the month with the largest number to its credit. This is not in accordance with the popular belief that rabies is a disease of "dog days".

The following table shows the routine work of the laboratory of 1913:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Diphtheria—													
Primary cultures examined	833	680	790	580	586	536	464	399	338	430	669	761	7,066
True cases	121	119	113	93	74	73	53	67	57	83	123	106	1,082
Total number of cultures examined	1,034	884	950	725	695	633	544	484	453	593	841	946	8,782
Diphtheria Antitoxin—													
Number of doses produced	268	331	542	756	0	374	395	0	307	483	320	636	4,412
Number of doses distributed	448	492	498	409	395	294	180	334	303	296	480	548	4,677
Tuberculosis—													
Specimens of sputa examined	265	232	253	240	265	184	186	208	186	184	191	226	2,620
Specimens containing tubercle bacilli	58	57	60	64	70	62	62	66	50	59	56	56	720
Blood examinations (typhoid and malaria)	106	59	98	91	102	76	120	113	91	115	82	84	1,137
Water examinations	26	13	29	30	34	46	37	31	27	22	22	25	342
Milk examinations	77	66	88	88	99	90	126	108	119	77	55	99	1,092
Disinfection tests	144	153	145	134	131	116	88	68	64	119	128	150	1,440
Rabies—													
Persons given antirabic treatment	4	12	2	2	5	0	1	0	4	3	3	5	41
Suspected animals examined	3	6	3	5	1	2	3	2	3	5	5	5	43
Animals found infected	1	5	1	3	0	0	0	0	1	2	2	2	17
Persons bitten by animals and the cases investigated by detailed inspector	32	22	34	53	82	79	66	53	50	56	28	57	612

DIPHTHERIA AND ANTITOXIN.

The use of antitoxin in the treatment of diphtheria has now become so general that almost all cases of the disease receive the serum.

The following table shows the result of treating diphtheria with and without antitoxin in Newark and covers a period of 19 years, the first 15 of which are grouped into 5-year periods:

DIPHTHERIA.

Antitoxin Used				Antitoxin Not Used			
Period	Cases	Deaths	%	Period	Cases	Deaths	%
1895 to 1900	3,296	357	10.8	1895 to 1900	2,444	528	21.6
1900 to 1905	5,070	365	7.2	1900 to 1905	1,289	256	19.8
1905 to 1910	5,348	323	6.0	1905 to 1910	622	144	23.0
Year				Year			
1910	1,252	80	6.3	1910	133	24	18.0
1911	1,247	56	4.5	1911	92	18	19.5
1912	1,005	76	7.5	1912	93	15	16.12
1913	1,489	89	5.97	1913	105	21	20.0

TUBERCULOSIS.

The total number of specimens of sputa received from suspected cases of tuberculosis during the year was 2,620, and in 720 of these the tubercle bacilli were found. The large majority of the latter were cases that were reported for the first time, and were, therefore, probably new cases of the disease, showing that fresh victims are being constantly infected despite all our efforts to check the disease.

The following analysis of the laboratory records on this subject has been prepared by the Assistant Bacteriologist, Dr. Thomas H. Ripley:

To R. N. Connolly, M. D., Bacteriologist.

DEAR SIR: The number of examinations of sputa made at the laboratory is constantly increasing. The records for the year 1913 show that 2,620 examinations were made from suspected cases of consumption, which is the largest number since the laboratory was established. The number of positive cases, however, was not so great. In 720 tubercle bacilli were found and 1,900 were negative.

The following table for the past 16 years shows the total number of examinations made and the number of positive and negative cases found, together with the percentage of positive cases recorded:

SPUTA EXAMINATIONS.

YEAR	Positive	Negative	Total	Percentage of Positive Cases
1898	312	378	690	45
1899	308	491	799	38
1900	380	623	1,003	37
1901	366	594	960	38
1902	796	746	1,542	51
1903	1,030	1,041	2,071	49
1904	804	959	1,763	45
1905	753	1,021	1,774	42
1906	740	1,385	2,125	34
1907	751	1,425	2,176	34
1908	727	1,380	2,107	34
1909	858	1,663	2,521	34
1910	771	1,746	2,517	30
1911	686	1,649	2,335	29
1912	797	1,820	2,617	30
1913	720	1,900	2,620	27

It will be noticed that the number of positive cases was about the same, while the negative cases and total examinations are increasing, which is probably due to the fact that physicians are availing themselves more and more every year of the work of the laboratory in making an early diagnosis of the disease.

The following table for the last eight years shows the sex and time of life in which tuberculosis occurs:

AGE AND SEX IN TUBERCULOSIS.

YEAR	1 to 10		10 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 plus		Total
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1906	0	0	26	29	110	73	97	56	71	17	33	5	8	2	527
1907	0	1	25	21	116	71	112	37	59	20	25	5	6	4	502
1908	0	1	40	20	138	72	123	57	68	22	27	11	5	5	589
1909	2	1	28	32	151	82	133	62	111	36	35	8	18	7	706
1910	0	0	35	22	123	75	107	60	58	23	22	12	5	5	547
1911	0	2	39	13	132	37	115	33	65	14	25	8	7	6	496
1912	2	1	30	34	151	68	161	77	96	18	51	4	16	5	714
1913	0	0	25	26	33	76	139	78	74	28	50	6	12	6	653
Totals	4	6	248	197	1,054	554	987	460	602	178	268	59	77	40	4,734
Totals	10		445		1,608		1,447		780		327		117		
Per Cent.	.002		.094		.34		.30		.16		.069		.024		

The above table shows that the greatest number of cases occur between the ages of 20 and 40.

Respectfully submitted,

DR. THOMAS H. RIPLEY,

Assistant Bacteriologist.

BACTERIOLOGICAL EXAMINATION OF SAMPLES OF ICE CREAM.

During the summer months of 1913 examination of 52 samples of ice cream was made, and the maximum number of bacteria found in any one sample was 210,000,000, and the minimum number was 300,000 bacteria per C.C.

The following table groups the samples according to the number of bacteria found, and the majority of the samples contained between one million and fifty million bacteria per cubic centimeter:

ICE CREAM.

3 samples contained over 100,000,000	Bacteria	per	CC
4 samples contained 50,000,000 to 100,000,000	"	"	"
43 samples contained 1,000,000 to 50,000,000	"	"	"
1 sample contained 500,000 to 1,000,000	"	"	"
1 sample contained less than 500,000	"	"	"

TYPHOID VACCINE.

At the beginning of 1912 the President, Dr. H. C. H. Herold, recommended that the Board of Health prepare and distribute typhoid vaccine, and acting upon instructions from the Board, the preparation of typhoid vaccine was begun and the following circular of information was printed for distribution:

DEPARTMENT OF HEALTH.

Division of Bacteriology,

Newark, N. J.

TYPHOID VACCINE.

The value of typhoid vaccine as a prophylactic against typhoid fever is now so generally acknowledged by authorities that the Board of Health of this city has determined to supply the vaccine free of charge to physicians who desire to use it for immunizing residents of Newark.

The vaccine can be obtained at the bacteriological laboratory at the City Hospital, and will be given only to physicians who furnish the name, address and such other data as the Board may require regarding the person for whom the vaccine is required.

DIRECTIONS FOR THE USE OF TYPHOID VACCINE.

In order to produce a satisfactory degree of immunity, three injections of the vaccine are required. The interval between injections should be seven to ten days. The first dose for the average adult is 500 million bacilli, and the second and third doses consist of 1000 million each. For those employed in business successive Saturdays is a convenient time. The injection should be given subcutaneously over the deltoid. The injection should be given about 4 P. M., so that if a reaction occurs it will be during the night.

The probability of a reaction should be explained at the time of treatment. The injection causes some pain which quickly subsides.

After a lapse of several hours a local and general reaction may develop. The local reaction consists of a red and tender area which may be several inches in diameter and local lymph nodes may be involved. The general reaction consists of headache, malaise and a rise in temperature. This, however, is absent in most cases and is severe in less than one per cent. of those injected and seldom lasts more than twenty-four hours.

The Board of Health has made a rule that a sample of blood and also of the urine be furnished for examination before the first injection is given, as only persons in ordinary good health should be injected.

It is recommended when one member of a family becomes infected with typhoid fever that the rest of the household be vaccinated immediately.

(Signed) HERMAN C. H. HEROLD, M. D.,
President.

DAVID D. CHANDLER,
Health Officer and Secretary.

The vaccine was ready for distribution in June and since that time 279 doses have been disposed of and 93 persons have been vaccinated.

The following report on the subject has been prepared by Dr. H. A. Tarbell, Assistant Bacteriologist:

To Dr. R. N. Connolly, Bacteriologist:

The success following preventative inoculation of Typhoid Vaccine in the U. S. Army and Navy has prompted the Board of Health to introduce it in general use in Newark. During the year the Laboratory has prepared the vaccine as routine work, and many persons have taken advantage of the product. As in the case of Diphtheria Antitoxin, it has been supplied free of charge to all physicians who apply for it, providing the vaccine is to be administered to residents of the city.

Among those who have been successfully inoculated are nurses and physicians in hospitals, members of families in which the disease has already claimed a patient, and persons about to travel or visit locations known to be infested more or less with typhoid fever. The knowledge that one is protected from such a malady should more than repay him for the slight inconvenience incident upon receiving the inoculations.

In the manufacture of the vaccine we select a pure culture of typhoid bacilli, attenuated by years of growth on artificial media. Several tubes of agar-agar are then infected with the culture, and grown for twenty-four hours in the incubator. It is now examined with the microscope to exclude contaminating organisms, and to each tube a small amount of normal salt solution is added. The resulting emulsion is then scraped off the agar tubes and transferred to other vessels, when it is standardized by the familiar method of counting the bacilli in a known amount of emulsion and a like quantity of human blood. The vessels are now hermetically sealed, and heated in a water bath for one hour at 55° Centigrade. The vaccine is now tested for evidence of poisonous products by injecting guinea pigs intra-peritoneally, and on culture material to prove its sterility. We have been able to produce a very typical immunity in guinea pigs as shown by the agglutination reaction.

The vaccine is supplied in packages of three small vials, one dose of 500 million and two doses of 1000 million killed bacilli. The three doses are to be administered subcutaneously, in the arm, at the insertion of the Deltoid muscle, at intervals of 7 or 8 days. Blood tests subsequent to the inoculations have shown very prompt and positive agglutinations with 24-hour cultures of typhoid bacilli.

This resultant immunity protects the individual for a period of three years or more, and may be repeated at the end of that time if desired.

It is to be hoped that physicians will use the vaccine more and more, for its value as a preventative is becoming universally conceded. The high rate of mortality of typhoid fever even in large cities should be a great argument for its more general use. It has been no uncommon thing in the past for nurses and physicians in attendance upon typhoid fever patients to succumb to it; such a happening now should be looked upon as little less than criminal, and it is perhaps not too soon to urge compulsory inoculation of the vaccine in all institutions, etc., where many persons are confined.

Respectfully,

H. A. TARBELL, M. D.

BACTERIOLOGICAL EXAMINATION OF NEWARK CITY WATER SUPPLY.

The following series of tables give in detail the results of bacteriological examination of the Pequannock water at the various sampling points for 1913.

The fermentation tests with glucose bouillon were repeatedly checked during the year with lactose bile, and the two media graded each other with almost perfect regularity. That is to say whenever the glucose bouillon showed the presence of fermenting germs, lactose bile gave the same result.

The tables show the usual seasonal variations in the water; also that the water has been singularly free from bacterial pollution during the entire year.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913.

Samples from Oak Ridge Stream, above Clinton Stream.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1 / 20	1 / 10	1 / 5	1 / 2	1 / C. C.	5 / C. C.
Jan. 7	450	—	—	—	—	—	+
Jan. 22	530	—	—	—	—	—	+
Feb. 18	160	—	—	—	—	—	—
Mar. 12	520	—	—	—	—	+	+
Mar. 25	190	—	—	—	+	+	+
Apr. 10	500	—	—	—	—	—	+
Apr. 30	950	—	—	—	—	—	+
May 14	1,660	—	—	—	—	—	+
May 27	2,260	—	—	—	—	—	—
June 11	1,030	—	—	—	+	+	+
June 26	970	—	—	—	—	+	+
July 9	2,260	—	—	—	+	+	+
July 23	1,730	+	+	+	+	+	+
Aug. 6	2,300	—	+	+	+	+	+
Aug. 19	2,600	+	+	+	+	+	+
Sept. 10	870	—	+	+	+	+	+
Sept. 26	1,550	—	—	—	+	+	+
Oct. 15	1,170	—	—	+	+	+	+
Oct. 29	1,290	—	—	—	—	+	+
Nov. 12	1,470	—	—	—	—	—	+
Nov. 26	560	—	—	—	—	—	+
Dec. 10	240	—	—	—	—	—	—
Dec. 23	310	—	—	—	—	+	+

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913—Continued.

Samples from Clinton Stream, above Oak Ridge Stream.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1 / 20	1 / 10	1 / 5	1 / 2	1 / C. C.	5 / C. C.
Jan. 7	500	—	—	—	—	—	+
Jan. 22	280	—	—	—	—	—	+
Feb. 18	320	—	—	—	—	—	+
Mar. 12	350	—	—	—	+	+	+
Mar. 25	240	—	—	+	+	+	+
Apr. 10	180	—	—	—	—	—	+
Apr. 30	610	—	—	—	+	+	+
May 14	1,210	—	—	—	—	+	+
May 27	990	—	—	—	—	—	—
June 11	950	—	—	—	+	+	+
June 26	1,260	—	—	—	—	+	+
July 9	1,860	—	—	—	—	—	—
July 23	1,870	+	+	+	+	+	+
Aug. 6	950	—	—	—	—	—	+
Aug. 19	1,470	+	+	+	+	+	+
Sept. 10	760	+	+	+	+	+	+
Sept. 26	1,700	—	—	—	+	+	+
Oct. 15	1,360	—	+	+	+	+	+
Oct. 29	1,560	—	—	—	—	—	+
Nov. 12	1,060	—	—	—	—	—	—
Nov. 26	330	—	—	—	—	—	+
Dec. 10	190	—	—	—	—	—	+
Dec. 23	190	—	—	—	+	+	+

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913—Continued.

Samples from Kanouse Creek, above Pequannock River.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1/20	1/10	1/5	1/2	1 C. C.	5 C. C.
Jan. 7	720	—	—	—	—	—	+
Jan. 22	1,133	—	—	—	—	—	+
Feb. 18	410	—	—	—	—	—	—
Mar. 12	380	—	—	—	—	+	+
Mar. 25	150	—	—	—	—	+	+
Apr. 10	640	—	—	—	—	—	+
Apr. 30	860	—	—	—	—	+	+
May 14	1,950	—	—	—	—	+	+
May 27	1,760	—	—	—	—	—	+
June 11	1,160	—	—	+	+	+	+
June 26	1,700	—	—	—	+	+	+
July 9	2,700	—	—	—	+	+	+
July 23	930	+	+	+	+	+	+
Aug. 6	1,700	—	—	—	—	+	+
Aug. 19	1,880	+	+	+	+	+	+
Sept. 10	980	—	+	+	+	+	+
Sept. 26	1,100	—	—	—	+	+	+
Oct. 15	1,450	—	—	—	—	+	+
Oct. 29	1,080	—	—	—	—	—	+
Nov. 12	1,270	—	—	—	—	—	+
Nov. 26	280	—	—	—	—	—	—
Dec. 10	210	—	—	—	—	—	+
Dec. 23	240	—	—	—	—	+	+

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913—Continued.

Samples from Echo Lake Stream, above Pequannock River.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1 / 20	1 / 10	1 / 5	1 / 2	1 / C. C.	5 / C. C.
Jan. 7	660	—	—	—	—	—	+
Jan. 22	150	—	—	—	—	—	—
Feb. 18	310	—	—	+	+	+	+
Mar. 12	620	—	—	—	—	—	+
Mar. 25	490	—	—	+	+	+	+
Apr. 10	270	—	—	—	—	—	+
Apr. 30	560	—	—	—	—	+	+
May 14	1,700	—	—	+	+	+	+
May 27	370	—	—	—	—	—	—
June 11	860	—	—	—	—	+	+
June 26	1,300	—	—	—	—	+	+
July 9	2,300	—	—	—	—	—	—
July 23	1,230	—	—	+	+	+	+
Aug. 6	1,450	—	—	—	—	—	—
Aug. 19	840	—	—	—	+	+	+
Sept. 10	190	—	—	+	+	+	+
Sept. 26	780	—	+	+	+	+	+
Oct. 15	410	—	—	—	—	—	+
Oct. 29	1,200	—	—	—	—	—	+
Nov. 12	850	—	—	—	—	—	+
Nov. 26	430	—	—	—	—	—	—
Dec. 10	230	—	—	—	—	—	—
Dec. 23	170	—	—	—	—	+	+

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913—Continued.

Samples from Macopin Intake, at Gatehouse.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1/20	1/10	1/5	1/2	1 C. C.	5 C. C.
Jan. 7	330	—	—	—	—	—	+
Jan. 22	390	—	—	—	—	—	+
Feb. 18	470	—	—	—	—	—	—
Mar. 12	320	—	—	—	—	—	+
Mar. 25	470	—	—	+	+	+	+
Apr. 10	380	—	—	—	—	—	+
Apr. 30	1,260	—	—	—	+	+	+
May 14	2,150	—	—	—	—	+	+
May 27	750	—	—	—	—	+	+
June 11	530	—	—	—	—	+	+
June 26	950	—	—	—	+	+	+
July 9	1,150	—	—	—	—	+	+
July 23	1,060	—	—	+	+	+	+
Aug. 6	900	—	—	—	—	—	—
Aug. 19	1,100	+	+	+	+	+	+
Sept. 10	385	+	+	+	+	+	+
Sept. 26	550	—	+	+	+	+	+
Oct. 15	910	—	—	+	+	+	+
Oct. 29	1,170	—	—	+	+	+	+
Nov. 12	980	—	—	—	—	+	+
Nov. 26	210	—	—	—	—	—	+
Dec. 10	200	—	—	—	—	—	—
Dec. 23	260	—	—	—	—	+	+

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913—Continued.

Samples from Cedar Grove Reservoir, at Inlet Gatehouse.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1/20	1/10	1/5	1/2	1 C. C.	5 C. C.
Jan. 7	190	—	—	—	—	—	+
Jan. 22	120	—	—	—	—	—	+
Feb. 18	450	—	—	—	—	—	—
Mar. 12	200	—	—	—	—	—	+
Mar. 25	160	—	—	—	—	+	+
Apr. 10	520	—	—	—	—	—	—
Apr. 30	560	—	—	—	+	+	+
May 14	210	—	—	—	—	+	+
May 27	350	—	—	—	—	—	+
June 11	230	—	—	—	—	+	+
June 26	270	—	—	—	—	—	+
July 9	550	—	—	—	—	—	+
July 23	760	—	—	+	+	+	+
Aug. 6	340	—	—	—	—	—	—
Aug. 19	110	—	—	—	—	—	—
Sept. 10	130	—	—	—	+	+	+
Sept. 26	40	—	—	—	+	+	+
Oct. 15	280	—	—	—	—	—	—
Oct. 29	330	—	—	—	—	—	+
Nov. 12	560	—	—	—	—	—	—
Nov. 26	160	—	—	—	—	—	+
Dec. 10	150	—	—	—	—	—	—
Dec. 23	50	—	—	—	—	+	+

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913—Continued.

Samples from Cedar Grove Reservoir, at Outlet Gatehouse.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1	1	1	1	1	5
		20	10	5	2	C. C.	C. C.
Jan. 7	520	—	—	—	—	—	+
Jan. 22	110	—	—	—	—	—	+
Feb. 18	160	—	—	—	—	—	—
Mar. 12	60	—	—	—	—	—	+
Mar. 25	100	—	—	—	—	—	—
Apr. 10	450	—	—	—	—	—	+
Apr. 30	310	—	—	—	—	—	—
May 14	40	—	—	—	—	—	+
May 27	80	—	—	—	—	—	—
June 11	70	—	—	—	—	—	+
June 26	170	—	—	—	—	—	—
July 9	490	—	—	—	—	—	+
July 23	480	—	—	+	+	+	+
Aug. 6	280	—	—	—	—	—	—
Aug. 19	110	—	+	+	+	+	+
Sept. 10	80	—	—	+	+	+	+
Sept. 26	110	—	—	—	+	+	+
Oct. 15	190	—	—	—	—	—	+
Oct. 29	320	—	—	—	—	—	+
Nov. 12	460	—	—	—	—	—	—
Nov. 26	80	—	—	—	—	—	—
Dec. 10	50	—	—	—	—	—	+
Dec. 23	70	—	—	—	—	—	+

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913—Continued.

Samples from Belleville Reservoir, at Inlet Gatehouse.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1 / 20	1 / 10	1 / 5	1 / 2	1 / C. C.	5 / C. C.
Jan. 7	280	—	—	—	—	—	+
Jan. 22	60	—	—	—	—	—	—
Feb. 18	110	—	—	—	—	—	—
Mar. 12	70	—	—	—	—	—	+
Mar. 25	130	—	—	—	—	—	+
Apr. 10	670	—	—	—	—	—	—
Apr. 30	210	—	—	—	—	—	—
May 14	60	—	—	—	—	—	—
May 27	70	—	—	—	—	—	+
June 11	140	—	—	—	—	—	+
June 26	120	—	—	—	—	—	—
July 9	400	—	—	—	—	—	+
July 23	320	—	—	—	+	+	+
Aug. 6	220	—	—	—	—	—	—
Aug. 19	90	—	—	—	—	—	—
Sept. 10	110	—	+	+	+	+	+
Sept. 26	260	—	—	—	+	+	+
Oct. 15	260	—	—	—	—	—	+
Oct. 29	290	—	—	—	—	—	—
Nov. 12	270	—	—	—	—	—	+
Nov. 26	100	—	—	—	—	—	—
Dec. 10	90	—	—	—	—	—	—
Dec. 23	90	—	—	—	—	—	—

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913—Continued.

Samples from Belleville Reservoir, at Outlet Gatehouse.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1	1	1	1	1	5
		20	10	5	2	C. C.	C. C.
Jan. 7	320	—	—	—	—	—	—
Jan. 22	80	—	—	—	—	—	+
Feb. 18	120	—	—	—	—	—	—
Mar. 12	70	—	—	—	—	—	+
Mar. 25	60	—	—	—	—	—	+
Apr. 10	300	—	—	—	—	—	—
Apr. 30	90	—	—	—	—	—	+
May 14	120	—	—	—	—	—	—
May 27	80	—	—	—	—	—	—
June 11	120	—	—	—	—	—	+
June 26	90	—	—	—	—	—	—
July 9	310	—	—	—	—	—	—
July 23	150	—	—	—	+	+	+
Aug. 6	290	—	—	—	—	—	—
Aug. 19	100	—	—	—	—	—	—
Sept. 10	190	—	—	+	+	+	+
Sept. 26	90	—	—	—	—	—	+
Oct. 15	90	—	—	—	—	—	+
Oct. 29	110	—	—	—	—	—	—
Nov. 12	240	—	—	—	—	—	—
Nov. 26	90	—	—	—	—	—	+
Dec. 10	90	—	—	—	—	—	—
Dec. 23	130	—	—	—	—	—	+

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913—Continued.

Samples from Board of Health Office, 880 Broad Street.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1 / 20	1 / 10	1 / 5	1 / 2	1 / C. C.	5 / C. C.
Jan. 7	170	—	—	—	—	—	—
Jan. 22	80	—	—	—	—	—	—
Feb. 18	40	—	—	—	—	—	—
Mar. 12	130	—	—	—	—	—	+
Mar. 25	150	—	—	—	—	—	+
Apr. 10	330	—	—	—	—	—	—
Apr. 30	90	—	—	—	—	—	—
May 14	60	—	—	—	—	—	—
May 27	40	—	—	—	—	—	—
June 11	70	—	—	—	—	—	—
June 26	100	—	—	—	—	—	—
July 9	90	—	—	—	—	—	—
July 23	60	—	—	—	—	—	+
Aug. 6	100	—	—	—	—	—	—
Aug. 19	40	—	—	—	—	+	+
Sept. 10	50	—	—	—	—	—	—
Sept. 26	150	—	—	—	—	—	+
Oct. 15	50	—	—	—	—	—	—
Oct. 29	120	—	—	—	—	—	—
Nov. 12	180	—	—	—	—	—	—
Nov. 26	90	—	—	—	—	—	—
Dec. 10	54	—	—	—	—	—	—
Dec. 23	50	—	—	—	—	—	—

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

BACTERIOLOGICAL EXAMINATION OF PEQUANNOCK WATER DURING 1913—Continued.

Samples from Laboratory Faucet, City Hospital.

1913	Bact. Per C. C.	Amount of Sample Causing Fermentation in Glucose Bouillon Tubes					
		1	1	1	1	1	5
		20	10	5	2	C. C.	C. C.
Jan. 7	230	—	—	—	—	—	+
Jan. 22	40	—	—	—	—	—	—
Feb. 18	90	—	—	—	—	—	+
Mar. 3	100	—	—	—	—	—	—
Mar. 12	100	—	—	—	—	—	+
Mar. 25	30	—	—	—	—	—	+
Apr. 10	250	—	—	—	—	—	—
Apr. 30	80	—	—	—	—	—	—
May 14	60	—	—	—	—	—	—
May 19	80	—	—	—	—	—	—
May 27	50	—	—	—	—	—	—
June 3	60	—	—	—	—	—	—
June 11	85	—	—	—	—	—	—
June 16	90	—	—	—	—	—	+
June 24	90	—	—	—	—	—	+
June 25	100	—	—	—	—	—	—
June 26	40	—	—	—	—	—	—
July 1	150	—	—	—	—	—	—
July 9	90	—	—	—	—	—	—
July 23	80	—	—	—	—	—	+
Aug. 6	110	—	—	—	—	—	—
Aug. 19	112	—	—	—	—	+	+
Sept. 10	70	—	—	—	—	—	+
Sept. 26	60	—	—	—	—	—	+
Oct. 15	150	—	—	—	—	—	+
Oct. 29	150	—	—	—	—	—	+
Nov. 12	160	—	—	—	—	—	+
Nov. 26	50	—	—	—	—	—	—
Dec. 10	40	—	—	—	—	—	—
Dec. 23	60	—	—	—	—	—	—

The sign (—) means no fermentation produced.
The sign (+) means fermentation produced.

The following table shows the annual average number of bacteria per C. C. in the Pequannock water at the various sampling points, together with the number of examinations made from each place during the last six years.

These examinations were made under practically the same conditions so that the results are comparable one year with another, and it may be noted that the general tendency at the various points, especially from Belleville Reservoir up into the watershed is toward a decrease in the bacterial content.

AVERAGE NUMBER OF BACTERIA PER CUBIC CENTIMETER IN THE PEQUANNOCK WATER AT THE SAMPLING POINTS FOR SIX YEARS.

ORIGIN OF SAMPLES	1908		1909		1910		1911		1912		1913	
	Samples Examined	Average Bacteria Per C.C.	Samples Examined	Average Bacteria Per C.C.	Samples Examined	Average Bacteria Per C.C.	Samples Examined	Average Bacteria Per C.C.	Samples Examined	Average Bacteria Per C.C.	Samples Examined	Average Bacteria Per C.C.
Oak Ridge Stream, above Clinton Stream	24	2237	21	1521	22	1619	21	1452	22	1899	23	1111
Clinton Stream, above Oak Ridge Stream	24	1859	21	1147	22	1475	21	1370	22	779	23	877
Kanouse Creek, above Pequannock River	24	4542	21	2433	22	1764	21	1556	22	1261	23	1028
Echo Lake Stream, above Pequannock River	24	2366	21	1146	22	2236	21	1447	22	1016	23	746
Macopin Intake, at Gatehouse	24	1350	21	1057	22	690	21	1252	22	655	23	733
Cedar Grove Reservoir, at Inlet Gatehouse	23	561	21	464	23	304	22	440	14	430	23	292
Cedar Grove Reservoir, at Outlet Gatehouse	24	436	21	343	23	260	22	208	26	287	23	208
Belleville Reservoir, at Inlet Gatehouse	24	452	21	311	26	190	22	255	29	275	23	192
Belleville Reservoir, at Outlet Gatehouse	24	416	20	315	25	216	22	214	29	267	23	172
Board of Health Office, 880 Broad Street	24	62	21	95	27	99	22	152	32	188	23	99
Laboratory Faucet, City Hospital	26	82	21	117	28	106	22	118	67	152	30	95

Very respectfully,

RICHARD N. CONNOLLY, M. D.,

Bacteriologist.

Report of the Chemist

ANNUAL REPORT OF THE CHEMIST

To D. D. Chandler, Health Officer:

DEAR SIR:—I herewith submit my annual report for the year ending December 31, 1913.

MILK.

As milk is our most important article of food and more easily made dangerous to health than any other, it has continued to occupy first place in the work done by the Food and Drug Inspectors and the Laboratory. The number of samples examined is over seventy per cent. in excess of last year.

With two slight exceptions, in 1906 and 1907, the general average quality, as determined by the figure for total solids, has steadily declined year by year, for the last fifteen previous years, from 12.87% to 12.01%. This year it is most gratifying to note a marked improvement which is probably the direct result of the activity of the Food and Drug Department.

Considerable of the Chemist's time during the year was devoted to the new Milk Ordinance adopted by the Board December 2, 1913. It classifies the milk into grades according to sanitary condition of production, and bacterial content and follows closely the lines of progress in milk sanitation.

DIRT IN MILK.

Many cities have recently added the examination for visible dirt in milk to their routine tests. We have tested over over one hundred samples in this way and found enough dirt, manure, etc., in many of them to prove this test to be a valuable indication of the care with which the milk has been handled.

The analyses made of milk have been classified and are given in the following tables:

CLASSIFIED TABLE OF MILK ANALYSES.

400 Samples having a percentage of Total Solids of 12.50 and above.

Average for Solids=12.98. Average for Fat=3.99.

Solids	Fat	Solids	Fat	Solids	Fat	Solids	Fat
13.31	4.20	13.45	4.20	12.62	3.40	12.76	4.00
12.55	3.70	12.63	3.70	12.82	3.80	12.91	4.00
13.42	5.70	12.68	3.40	12.65	3.90	13.65	4.90
12.99	4.00	12.50	3.90	12.69	3.80	12.75	3.80
13.05	3.80	13.06	4.00	12.85	3.70	12.70	3.40
12.98	4.30	12.62	3.50	12.58	3.90	12.77	4.00
12.50	3.40	13.71	4.60	12.90	3.80	12.80	3.90
13.21	4.30	12.71	3.90	12.55	3.70	13.01	4.20
12.82	3.80	12.96	3.80	12.60	3.50	12.25	3.80
13.85	4.70	13.10	3.90	12.61	3.80	12.63	3.70
12.65	3.60	13.19	4.10	14.62	6.80	12.61	3.80
13.19	4.10	12.86	3.90	12.95	3.90	12.50	3.90
12.72	3.60	12.56	4.00	12.76	4.00	12.65	3.90
12.62	5.50	12.60	3.80	12.97	4.40	12.59	3.60
13.22	4.60	12.75	3.80	13.52	4.20	12.99	4.00
12.92	4.10	12.54	3.50	12.51	3.60	13.00	4.60
14.80	5.50	12.75	4.00	14.92	6.60	13.29	4.30
13.05	3.80	12.85	3.60	12.62	3.70	12.84	4.00
12.60	3.80	13.13	4.30	12.98	3.40	12.60	3.60
12.57	4.00	13.42	4.60	13.35	4.00	13.29	4.00
12.78	3.70	12.59	3.60	12.77	4.00	13.25	4.40
14.05	5.20	13.05	3.70	12.62	3.50	12.93	4.20
12.56	4.00	12.69	3.80	13.41	4.00	13.00	4.20
12.59	3.60	12.50	3.60	12.69	4.00	12.79	3.90
13.08	4.20	12.65	3.60	12.58	3.50	12.77	4.00
13.17	4.40	13.24	4.20	12.60	3.60	13.55	3.40
13.02	3.90	13.07	4.30	12.56	4.00	12.82	3.80
12.50	3.90	12.85	3.40	12.71	3.70	12.52	3.80
13.01	3.60	12.65	3.30	12.75	3.50	12.87	3.60
13.28	4.30	12.91	4.00	13.54	4.10	13.42	4.00
12.59	3.60	12.62	3.40	12.65	3.60	12.82	3.60
12.69	3.80	12.94	3.70	12.55	3.70	12.29	3.40
12.76	4.00	12.68	3.80	13.70	4.00	13.19	4.10
13.22	4.50	12 56	4.00	13.18	3.90	12.59	3.60
13.00	4.60	13.16	4.50	13.91	4.10	12.50	3.90
12.92	4.00	13.14	4.00	12.85	3.70	12.75	3.80
12.60	3.80	12.98	3.40	13.42	4.10	13.03	3.80
13.74	4.50	12.50	3.90	13.40	4.40	12.90	3.80

CLASSIFIED TABLE OF MILK ANALYSES—Continued.

400 Samples having a percentage of Total Solids of 12.50 and above—Continued.

Average for Solids=12.98. Average for Fat=3.99.

Solids	Fat	Solids	Fat	Solids	Fat	Solids	Fat
12.93	3.70	12.75	3.80	12.94	3.60	14.50	6.60
12.50	3.40	12.62	3.50	12.79	3.70	13.25	3.80
12.54	3.60	13.85	5.20	12.65	3.60	13.00	4.00
13.00	3.55	12.81	3.60	12.81	3.50	12.58	3.60
12.87	3.90	13.07	4.00	12.69	3.50	13.02	3.90
12.99	4.00	12.60	3.50	12.61	3.80	12.89	3.90
12.72	3.00	12.56	4.00	12.52	3.80	12.62	3.50
12.54	3.60	12.59	3.60	12.71	3.70	13.20	4.30
12.70	3.50	12.61	3.80	13.10	3.90	12.69	4.00
12.55	3.70	13.35	4.00	13.10	3.90	12.62	3.40
12.92	4.20	12.70	3.70	12.55	3.70	12.52	4.40
12.52	3.80	13.20	4.20	13.55	4.60	12.45	4.20
15.40	6.40	13.05	3.80	12.75	3.50	13.00	4.20
12.68	4.40	12.82	3.80	12.84	4.00	13.59	3.80
13.82	3.60	13.30	4.00	12.84	4.00	12.99	4.00
14.59	6.00	14.10	5.20	12.65	3.60	12.68	3.80
13.16	4.50	12.82	3.70	12.65	3.50	12.63	3.70
12.59	3.60	14.00	4.60	12.82	4.40	13.14	4.00
12.69	3.50	12.95	3.90	13.59	4.50	13.10	3.90
12.52	3.80	12.70	3.50	13.45	3.90	13.04	3.20
12.56	4.00	12.91	4.00	12.68	3.80	12.65	3.60
12.50	3.90	13.84	6.20	12.90	3.80	12.52	3.80
13.10	3.80	12.70	3.50	12.52	3.80	12.59	4.00
12.91	4.40	12.77	4.00	12.55	3.70	13.29	4.00
12.55	3.70	12.65	4.20	12.75	4.00	12.56	3.20
13.54	3.50	13.15	4.00	12.54	3.50	13.56	4.30
12.65	3.60	12.55	4.10	12.71	3.70	15.34	6.10
13.20	3.70	13.15	4.20	13.58	4.30	13.21	4.10
13.32	4.40	12.85	4.00	12.92	4.00	13.45	4.20
13.29	4.00	12.85	3.60	13.06	4.00	13.10	3.80
12.85	3.60	12.92	3.90	13.77	4.40	12.75	3.80
13.02	4.20	13.54	4.60	12.98	3.70	12.89	4.10
12.51	3.60	12.95	3.80	12.84	3.70	12.93	4.00
12.85	3.70	13.29	4.00	12.97	4.30	12.54	3.50
13.19	3.90	12.85	3.70	13.15	4.00	13.25	3.80
12.84	4.00	13.64	3.70	13.45	4.20	13.15	4.00
12.50	3.60	12.73	3.60	12.52	3.60	14.10	5.00
12.73	3.60	13.13	4.10	12.72	3.60	12.65	3.60

CLASSIFIED TABLE OF MILK ANALYSES—Continued.

400 Samples having a percentage of Total Solids of 12.50 and above—Continued.

Average for Solids=12.98. Average for Fat=3.99.

Solids	Fat	Solids	Fat	Solids	Fat	Solids	Fat
12.51	3.60	13.48	4.40	13.95	5.00	13.15	4.20
12.61	3.50	13.17	3.80	12.89	4.00	13.54	4.20
13.35	4.60	13.35	4.30	13.95	4.80	12.80	3.90
12.69	4.00	12.69	3.50	12.50	3.40	13.35	4.50
12.82	3.60	14.02	4.60	12.99	3.80	12.88	3.90
13.08	4.20	12.72	3.60	13.59	3.90	13.72	4.50
12.85	4.30	13.95	4.80	12.60	3.80	12.65	3.60
13.00	4.20	12.51	3.60	13.11	4.10	13.53	4.20
12.69	3.80	12.69	3.80	13.07	3.60	12.82	3.80
12.69	4.00	12.78	3.70	12.67	3.80	13.38	4.20
13.70	4.40	12.65	3.60	13.40	4.40	14.26	5.00
13.15	4.20	12.55	3.70	13.17	3.90	12.76	4.00
13.09	4.20	12.69	3.50	12.55	3.70	12.63	3.70
12.89	3.80	12.62	3.50	13.42	4.60	12.89	4.10
13.15	4.20	14.42	5.80	12.65	3.60	15.12	5.70
13.02	3.90	12.93	3.70	12.95	4.10	12.68	3.80
13.47	4.40	12.85	3.70	13.69	4.70	12.59	3.60
13.23	4.20	13.06	4.00	12.62	3.70	12.62	4.00
13.05	3.80	12.62	3.40	12.65	3.90	12.67	3.40
12.56	4.00	12.82	3.60	13.29	4.50	12.65	3.90
12.95	4.10	13.50	4.30	12.55	3.70	13.41	4.10
13.15	4.20	12.82	3.60	13.14	4.00	12.83	3.80
13.40	4.40	12.92	4.20	12.75	4.00	12.54	3.50
13.66	4.50	12.52	3.60	12.52	3.60	12.50	3.40

CLASSIFIED TABLE OF MILK ANALYSES—Continued.

454 Samples having a percentage of Total Solids between 12.00 and 12.50.

Average for Solids=12.24. Average for Fat=3.48.

Solids	Fat	Solids	Fat	Solids	Fat	Solids	Fat
12.39	3.50	12.07	3.30	12.12	3.20	12.88	3.40
12.19	3.20	12.15	3.50	12.14	3.10	12.42	4.00
12.24	3.00	12.29	3.60	12.15	3.30	12.13	3.10
12.35	3.40	12.45	3.60	12.29	3.60	12.15	3.50
12.42	3.40	12.00	3.30	12.44	3.60	12.21	3.60
12.35	3.40	12.45	3.50	12.46	3.50	12.21	3.60
12.00	3.30	12.01	3.00	12.06	4.00	12.11	3.10
12.32	3.50	12.24	3.50	12.42	3.40	12.12	3.20
12.27	3.40	12.31	3.50	12.01	3.50	12.00	3.30
12.30	3.30	12.29	3.60	12.45	3.80	12.27	3.40
12.11	3.40	12.34	3.20	12.04	3.20	12.38	3.80
12.29	3.40	12.12	3.40	12.36	3.60	12.05	3.40
12.25	3.20	12.03	3.45	12.08	3.30	12.30	3.30
12.24	3.50	12.32	3.50	12.12	3.70	12.39	3.50
12.25	3.50	12.19	3.20	12.08	3.30	12.15	3.30
12.24	3.30	12.36	3.30	12.03	3.30	12.29	3.60
12.02	3.00	12.35	3.40	12.11	3.20	12.16	3.50
12.45	3.30	12.42	3.40	12.05	3.40	12.20	3.40
12.21	3.70	12.39	3.50	12.01	3.50	12.15	3.30
12.31	3.50	12.29	3.40	12.46	3.50	12.29	3.60
12.09	3.50	12.15	3.30	12.05	3.40	12.43	3.60
12.01	3.00	12.29	3.00	12.40	3.40	12.12	3.00
12.22	3.30	12.11	3.70	12.46	3.50	12.12	3.50
12.20	3.40	12.45	3.50	12.49	3.40	12.18	3.20
12.41	4.00	12.30	3.20	12.10	3.20	12.07	3.30
12.39	3.30	12.27	3.40	12.00	3.30	12.15	3.30
12.25	3.20	12.19	3.20	12.12	3.20	12.45	3.80
12.01	3.00	12.04	3.10	12.10	3.00	12.25	3.70
12.45	3.80	12.18	3.10	12.16	3.50	12.05	3.10
12.20	3.40	12.27	3.40	12.28	3.40	12.24	3.50
12.29	3.60	12.10	3.20	12.20	3.40	12.05	3.10
12.22	3.60	12.05	3.40	12.08	3.30	12.01	3.30
12.00	3.30	12.20	3.40	12.23	3.30	12.19	3.40
12.49	3.30	12.35	3.40	12.00	3.10	12.45	3.60
12.01	3.00	12.20	3.40	12.42	3.60	12.02	3.50
12.22	3.40	12.41	3.50	12.00	3.30	12.34	3.40
12.12	3.30	12.41	3.40	12.22	3.10	12.45	3.60
12.25	3.20	12.09	3.00	12.35	3.60	12.25	3.00

CLASSIFIED TABLE OF MILK ANALYSES—Continued.

454 Samples having a percentage of Total Solids between 12.00 and 12.50—Continued.

Average for Solids=12.24. Average for Fat=3.48.

Solids	Fat	Solids	Fat	Solids	Fat	Solids	Fat
12.05	3.40	12.15	3.30	12.25	3.70	12.24	3.50
12.05	3.40	12.39	3.50	12.49	4.00	12.29	3.40
12.07	3.30	12.44	3.60	12.23	3.30	12.30	3.30
12.04	3.20	12.35	3.40	12.20	3.70	12.22	3.30
12.05	3.40	12.09	3.60	12.20	3.70	12.42	3.40
12.10	3.20	12.11	3.20	12.38	3.80	12.05	3 70
12.09	3.30	12.12	3.30	12.09	3.60	12.46	3.50
12.28	3.40	12.29	3.40	12.09	3.50	12.39	3 50
12.25	3.20	12.40	4.30	12.25	3.70	12.01	3.60
12.01	3.50	12.11	3.20	12.39	3.80	12.01	3.50
12.31	3.50	12.13	3.10	12.32	3.80	12.49	3.90
12.18	3.20	12.00	3.30	12.09	3.50	12.21	3.70
12.09	3.60	12.16	3.50	12.09	3.50	12.25	3.80
12.20	3.40	12.26	3.40	12.32	3.50	12.20	3.40
12.41	3.70	12.40	3.40	12.35	3.60	12.31	3.30
12.35	3.60	12.45	3.50	12.41	3.70	12.20	3.40
12.20	3.40	12.24	3.50	12.10	3.80	12.05	3.70
12.01	3.50	12.45	3.80	12.19	3.40	12.25	3.70
12.10	3.80	12.09	3.00	12.44	3.60	12.02	3.50
12.12	3.40	12.09	3.60	12.02	3.80	12.00	3.30
12.22	3.30	12.09	3.00	12.11	3.20	12.12	3.40
12.17	3.20	12.20	3.40	12.04	3.20	12.24	3.60
12.41	3.40	12.36	3.20	12.44	3.60	12.32	3.50
12.12	4.00	12.00	3.30	12.19	3.40	12.32	3.70
12.35	3.40	12.32	3.50	12.17	3.80	12.21	3.60
12.39	3.50	12.20	3.50	12.32	3.80	12.65	3.60
12.42	3.40	12.11	3.20	12.41	3.70	12.11	3.40
12.33	3.20	12.15	3.50	12.23	3.50	12.28	3.60
12.32	3.50	12.45	3.80	12.36	3.80	12.09	3.00
12.19	3.20	12.35	3.40	12.45	3.80	12.08	3.30
12.35	3.60	12.00	3.30	12.01	3.60	12.29	3.60
12.20	3.40	12.32	3.50	12.25	3.70	12.11	3.20
12.35	3.60	12.45	3.50	12.25	3.70	12.29	3.60
12.09	3.50	12.35	3.60	12.25	3.60	12.27	3.40
12.38	4.10	12.29	3.40	12.20	3.40	12.48	3.70
12.35	3.40	12.31	3.50	12.35	3.60	12.35	4.40
12.20	3.40	12.46	3.40	12.49	3.70	12.09	3.60
12.16	3.50	12.40	3.40	12.26	4.00	12.13	3.60

CLASSIFIED TABLE OF MILK ANALYSES—Continued.

454 Samples having a percentage of Total Solids between 12.00 and 12.50—Continued.

Average for Solids=12.24. Average for Fat=3.48.

Solids	Fat	Solids	Fat	Solids	Fat	Solids	Fat
12.33	3.70	12.24	3.50	12.05	3.40	12.14	3.60
12.35	3.60	12.25	3.20	12.41	3.70	12.15	3.30
12.08	3.30	12.35	3.40	12.38	3.80	12.05	3.70
12.05	3.40	12.47	3.70	12.05	3.70	12.45	3.90
12.20	3.40	12.21	3.60	12.14	3.60	12.16	3.50
12.39	3.50	12.32	3.80	12.09	3.60	12.38	3.80
12.25	3.80	12.15	3.50	12.40	3.50	12.13	3.60
12.13	3.60	12.23	3.80	12.49	4.00	12.34	3.20
12.05	3.40	12.09	3.50	12.05	3.40	12.39	3.50
12.19	3.80	12.02	3.50	12.41	3.70	12.23	3.50
12.12	3.10	12.01	3.60	12.04	3.20	12.26	3.40
12.03	3.20	12.12	3.40	12.47	3.70	12.23	3.50
12.15	3.30	12.01	3.60	12.24	3.50	12.39	3.80
12.19	3.20	12.14	3.30	12.20	3.40	12.20	3.40
12.15	3.30	12.49	4.00	12.47	3.70	12.33	3.50
12.25	3.80	12.31	3.50	12.18	4.10	12.40	3.70
12.32	3.70	12.29	3.60	12.05	3.40	12.02	3.50
12.26	3.40	12.24	3.50	12.02	3.50	12.44	3.60
12.35	3.40	12.09	3.50	12.09	3.50	12.27	3.40
12.12	3.40	12.44	3.40	12.20	3.40	12.23	3.30
12.12	3.40	12.45	3.50	12.20	3.60	12.42	4.00
12.45	3.30	12.30	3.30	12.74	3.80	12.04	3.20
12.42	3.60	12.12	3.40	12.23	3.30	12.14	3.60
12.33	3.40	12.12	3.40	12.21	3.70	12.32	3.80
12.10	3.80	12.12	3.40	12.47	3.70	12.47	3.70
12.33	3.80	12.45	3.80	12.22	3.50	12.47	3.70
12.42	3.40	12.25	3.70	12.22	3.60	12.09	3.50
12.22	3.90	12.41	3.70	12.25	3.70	12.25	3.80
12.38	3.90	12.01	3.60	12.49	3.70	12.33	3.70
12.22	3.60	12.39	3.50	12.21	6.00	12.38	3.80
12.24	3.70	12.35	3.60	12.45	3.30	12.12	3.40
12.32	3.70	12.05	3.70	12.31	3.50	12.25	3.80
12.12	3.60	12.36	3.80	12.29	3.40	12.12	3.40
12.71	3.70	12.32	3.80	12.33	3.70	12.25	3.20
12.24	3.50	12.24	3.50	12.48	3.70	12.42	3.40
12.12	3.40	12.35	3.60	12.39	3.50	12.22	3.60
12.04	3.20	12.26	3.40	12.09	3.60	12.09	3.60
12.08	3.30	12.15	3.50				

CLASSIFIED TABLE OF MILK ANALYSES—Continued.

329 Samples having a percentage of Total Solids between 11.50 and 12.00.

Average for Solids=11.82. Average for Fat=3.22.

Solids	Fat	Solids	Fat	Solids	Fat	Solids	Fat
11.95	3.60	11.94	3.60	11.69	3.10	11.87	3.00
11.65	3.30	11.78	2.80	11.50	3.00	11.99	3.10
11.85	3.30	11.79	2.80	11.85	3.30	11.65	3.30
11.72	3.00	11.90	3.40	11.89	3.20	11.80	3.20
11.78	3.30	11.92	3.10	11.89	3.20	11.65	3.20
11.55	3.30	11.89	3.20	11.80	3.20	11.62	3.10
11.50	3.10	11.91	3.10	11.65	3.20	11.80	3.20
11.79	3.00	11.85	3.40	11.62	3.10	11.85	3.10
11.72	2.70	11.95	3.20	11.51	2.90	11.85	3.10
11.85	3.40	11.76	3.20	11.72	3.30	11.93	3.30
11.95	3.50	11.80	3.20	11.62	2.70	11.89	3.50
11.86	3.00	11.79	3.00	11.97	3.40	11.98	3.40
11.90	3.10	11.53	3.00	11.80	3.00	11.81	3.20
11.87	3.00	11.58	2.65	11.88	3.20	11.92	3.00
11.70	3.00	11.93	3.30	11.75	3.10	11.63	2.00
11.95	2.90	11.85	3.40	11.88	3.00	11.95	3.60
11.65	3.30	11.90	2.00	11.87	3.00	11.85	3.00
11.96	3.70	11.86	3.00	11.94	3.60	11.56	3.30
11.72	3.20	11.99	2.90	11.65	3.20	11.81	3.20
11.67	3.00	11.74	3.50	11.75	2.90	11.85	3.40
11.88	3.00	11.74	3.20	11.85	3.30	11.65	3.00
11.89	3.50	11.62	3.10	11.79	3.00	11.80	3.20
11.78	3.30	11.88	3.00	11.57	3.00	11.89	3.50
11.65	3.30	11.92	3.80	11.80	3.20	11.85	3.60
11.85	3.40	11.53	3.10	11.81	3.20	11.73	3.20
11.81	3.20	11.84	3.10	11.62	3.10	11.52	3.50
11.64	3.00	11.84	3.10	11.69	3.70	11.89	3.40
11.51	3.00	11.69	3.50	11.84	3.70	11.65	3.40
11.61	2.90	11.85	3.60	11.72	3.00	11.64	3.00
11.68	3.10	11.90	3.40	11.87	3.00	11.56	3.50
11.80	3.00	11.89	3.00	11.64	3.00	11.92	3.30
11.80	3.00	11.72	3.00	11.85	3.40	11.95	3.20
11.94	3.00	11.72	3.00	11.95	3.20	11.92	3.10
11.81	3.20	11.70	3.00	11.93	3.30	11.85	3.60
11.84	3.10	11.87	3.00	11.87	3.20	11.91	3.10
11.53	2.90	11.80	3.00	11.65	3.00	11.70	3.40
11.98	3.10	11.92	3.70	11.59	3.30	11.72	3.20
11.62	3.60	11.75	2.90	11.54	3.20	11.90	3.70
11.55	2.90	11.55	3.35	11.53	3.30	11.97	3.40
11.85	3.30	11.75	3.30	11.92	3.10	11.70	3.00
11.59	3.30	11.94	3.00	11.62	3.10	11.81	3.20

CLASSIFIED TABLE OF MILK ANALYSES—Continued.

329 Samples having a percentage of Total Solids between 11.50 and 12.00—Continued.

Average for Solids=11.82. Average for Fat=3.22.

Solids	Fat	Solids	Fat	Solids	Fat	Solids	Fat
11.75	3.10	11.93	3.30	11.78	3.40	11.82	2.90
11.85	3.10	11.63	3.00	11.72	3.40	11.96	3.50
11.62	3.40	11.76	3.40	11.84	3.20	11.78	3.00
11.96	3.50	11.90	3.40	11.86	3.00	11.56	3.00
11.80	3.20	11.82	3.50	11.87	3.90	11.55	2.80
11.92	3.00	11.54	3.10	11.72	3.00	11.82	3.50
11.51	3.40	11.97	3.40	11.35	2.60	11.55	3.20
11.99	3.70	11.81	3.20	11.90	3.40	11.64	3.10
11.90	3.40	11.65	3.20	11.70	3.40	11.85	3.60
11.85	3.50	11.90	3.70	11.92	3.10	11.71	3.60
11.92	3.10	11.80	3.20	11.69	3.40	11.95	3.20
11.67	3.10	11.85	3.40	11.64	2.90	11.76	3.40
11.85	3.60	11.61	3.40	11.90	3.40	11.65	3.20
11.71	3.00	11.72	3.00	11.85	3.30	11.84	3.10
11.50	3.00	11.94	3.00	11.86	3.00	11.92	3.10
11.70	3.10	11.72	3.00	11.82	3.50	11.79	3.00
11.89	3.20	11.72	3.00	11.56	3.00	11.90	3.40
11.64	3.00	11.89	3.20	11.82	3.20	11.62	3.40
11.97	3.40	11.52	2.60	11.78	3.10	11.59	3.30
11.89	3.20	11.85	3.30	11.92	3.30	11.70	3.40
11.64	3.00	11.58	3.30	11.92	3.10	11.72	3.20
11.87	3.50	11.50	3.00	11.97	3.40	11.70	2.80
11.63	3.00	11.89	3.50	11.82	3.50	11.73	3.20
11.89	3.50	11.97	3.40	11.94	3.00	11.85	3.30
11.71	3.60	11.77	3.40	11.85	3.40	11.81	4.10
11.72	3.50	11.59	3.50	11.76	3.40	11.86	3.10
11.60	3.50	11.92	3.10	11.85	3.30	11.72	3.30
11.80	3.00	11.68	3.10	11.66	3.10	11.72	3.30
11.52	3.00	11.72	3.80	11.97	3.40	11.85	3.40
11.92	3.30	11.56	3.00	11.67	2.90	11.75	3.10
11.99	3.10	11.50	3.10	11.83	3.50	11.72	3.00
11.85	3.40	11.98	3.70	11.72	3.20	11.56	3.00
11.75	3.30	11.72	3.20	11.99	3.10	11.90	2.90
11.62	3.40	11.94	3.60	11.79	2.80	11.96	3.70
11.65	3.20	11.88	3.20	11.70	2.80	11.82	3.50
11.96	3.50	11.87	3.20	11.95	3.40	11.96	3.70
11.92	3.30	11.95	3.50	11.95	3.60	11.81	3.20
11.65	3.30	11.85	3.60	11.97	3.40	11.72	3.50
11.71	3.00	11.86	3.30	11.74	3.20	11.85	3.40
11.72	3.20	11.85	3.40	11.89	3.50	11.97	3.40
11.77	3.30	11.78	2.80	11.89	3.20	11.85	3.30
11.79	3.00						

CLASSIFIED TABLE OF MILK ANALYSES—Continued.

122 Samples having a percentage of Total Solids below 11.50.

Average for Solids=11.04. Average for Fat=2.90.

Solids	Fat	Solids	Fat	Solids	Fat	Solids	Fat
11.05	3.00	11.26	3.00	11.31	3.00	10.06	2.45
10.95	2.60	11.39	3.20	11.46	3.00	11.42	3.00
11.28	2.80	10.44	2.60	10.60	3.00	11.30	3.10
11.42	3.40	9.50	1.60	10.68	3.10	10.18	1.40
11.30	2.90	11.12	2.90	11.44	3.00	10.92	2.40
11.12	3.30	11.27	3.60	11.24	3.70	11.01	3.10
11.25	3.00	11.01	3.10	11.40	3.00	11.14	3.10
11.14	3.00	10.42	2.70	11.28	2.80	10.77	2.50
11.45	3.00	11.45	2.60	11.20	2.60	11.05	2.80
11.45	2.60	10.99	2.90	11.45	3.20	10.99	2.60
10.83	3.50	11.29	3.00	10.91	2.90	11.41	2.80
11.14	2.55	11.28	3.20	11.12	3.20	11.35	2.80
11.32	2.70	11.34	3.20	10.89	2.90	10.90	2.60
11.20	2.80	11.27	3.20	10.96	3.10	11.41	3.00
11.42	2.60	11.21	3.20	10.66	2.70	10.79	2.70
11.28	3.90	10.92	2.40	11.33	3.10	11.18	3.25
10.98	2.50	11.01	3.10	11.35	3.00	10.83	3.00
11.35	3.30	10.82	2.50	11.31	3.20	10.32	3.30
9.91	2.00	11.27	2.90	11.20	2.60	11.48	3.50
11.35	3.20	10.91	2.10	11.08	3.10	10.78	3.10
11.35	3.00	10.28	2.50	9.52	1.55	11.30	2.90
10.89	2.20	10.84	2.60	11.36	3.00	10.60	3.00
11.00	2.40	11.20	2.70	10.27	3.00	11.42	3.30
10.01	3.10	11.40	3.00	9.93	2.35	10.16	2.70
10.79	2.40	11.26	2.80	11.21	3.10	10.77	3.00
11.41	3.20	11.00	3.00	11.47	2.85	10.02	3.10
10.97	3.20	11.01	2.50	11.38	3.05	11.45	2.80
11.30	2.80	11.30	3.00	11.35	2.60	11.39	2.70
11.15	2.60	11.44	2.80	11.13	2.70	11.10	3.40
11.05	2.70	11.28	2.75	11.20	2.60	11.25	3.10
11.25	3.00	10.24	3.00				

COMPARISON TABLE.

	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913
Year																	
Number of samples analyzed	136	178	221	283	293	330	465	352	445	442	418	531	365	558	854	824	1305
Total Solids of 12.50 and over.																	
1st class — Percentage of samples	69.12	70.23	72.40	65.37	63.82	58.18	62.80	54.55	49.90	51.81	52.63	46.52	36.16	34.95	23.53	23.30	30.65
1st class — Average % of total solids	13.24	13.24	13.06	13.24	13.10	13.18	12.97	13.07	13.14	13.14	13.21	13.09	13.24	13.04	12.79	12.91	12.98
1st class — Average % of fat	.....	.....	3.95	4.06	4.01	4.16	3.88	4.05	4.10	4.06	4.22	4.08	4.13	4.05	3.71	4.02	3.99
Total Solids between 12.00 & 12.50.																	
2d class — Percentage of samples	21.32	14.15	15.38	21.55	22.87	27.88	21.99	27.56	29.66	25.34	29.67	29.00	32.88	30.64	38.17	34.10	34.78
2d class — Average % of total solids	12.23	12.35	12.27	12.25	12.25	12.25	12.25	12.26	12.22	12.24	12.25	12.22	12.24	12.23	12.22	12.24	12.24
2d class — Average % of fat	.....	.....	3.60	3.56	3.52	3.55	3.50	3.60	3.49	3.45	3.56	3.46	3.53	3.55	3.35	3.50	3.48
Total Solids below 12.00.																	
3d class — Percentage of samples	19.56	15.73	12.32	13.07	13.31	13.94	15.91	17.89	20.44	22.85	17.70	24.48	30.96	34.41	38.29	42.60	34.57
3d class — Average % of total solids	11.61	11.58	11.48	11.56	11.82	11.44	11.51	11.25	11.38	11.47	11.57	11.50	11.50	11.32	11.47	11.34	11.61
3d class — Average % of fat	.....	.....	3.11	3.25	3.08	3.13	3.18	3.10	3.04	3.20	3.14	3.06	3.06	3.12	3.02	3.10	3.13
Total Solids below 11.50.																	
Included in 3d class — Percentage of samples	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14.75	16.14	9.35
Included in 3d class — Average % of total solids	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.98	10.66	11.04
Included in 3d class — Average % of fat	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.82	2.87	2.90
General average % of total solids	12.87	12.82	12.75	12.77	12.70	12.64	12.60	12.52	12.51	12.53	12.63	12.45	12.37	12.20	12.06	12.01	12.25
General average % of fat	.....	.....	3.80	3.85	3.75	3.81	3.68	3.75	3.61	3.71	3.83	3.65	3.62	3.58	3.31	3.45	3.51

CITY WATER.

There is nothing of special interest to relate about the city water, which continues to be of the usual good quality. The analytical data are tabulated as follows:

ANALYSES OF NEWARK AQUEDUCT WATER.

Samples from Oak Ridge Stream, before junction with Clinton Stream at New Foundland.

PARTS PER MILLION.

1913	Temperature, Fahr.	Turbidity	Color	Nitrogen as				Chlorine	Temporary Hardness (Alkalinity)	Total Solids	Loss on Ignition	Fixed Solids
				Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates					
Jan. 14	33	3	20	.022	.048	.002	.30	3.0	27	61	26	35
Feb. 21	38	2	40	.026	.094	.001	.12	2.0	26	52	25	27
Mar. 25	46	0.5	40	.036	.132	*	.08	3.0	21	51	24	27
Apr. 22	45	0.5	40	.028	.108	.000	.15	2.0	23	62	18	44
May 20	50	1	30	.028	.106	.000	.08	3.0	30	56	20	36
June 18	57	1	35	.042	.124	.000	.08	3.0	29	56	24	32
July 16	62	1	25	.038	.108	.000	.16	3.0	36	60	24	36
Aug. 7	69	0.5	25	.032	.116	.000	.07	3.0	33	57	18	39
Sept. 26	58	1	30	.030	.118	.000	.05	3.0	27	63	28	35
Oct. 22	42	2	40	.048	.126	.000	.15	2.0	29	80	38	42
Nov. 18	40	0.5	15	.032	.070	.000	.16	3.0	27	59	23	36
Dec. 11	35	2	45	.038	.122	.000	.11	3.0	30	67	30	37

* Trace.

ANALYSES OF NEWARK AQUEDUCT WATER.

Samples from Clinton Stream, before junction with Oak Ridge Stream at New Foundland.

PARTS PER MILLION.

1913	Temperature, Fahr.	Turbidity	Color	Nitrogen as				Chlorine	Temporary Hardness (Alkalinity)	Total Solids	Loss on Ignition	Fixed Solids
				Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates					
Jan. 14	33	1	20	.016	.046	.002	.5	2.0	12	40	15	25
Feb. 21	40	0.5	10	.012	.040	.001	.08	2.0	17	37	15	22
Mar. 25	46	1	20	.030	.098	*	.05	2.0	10	32	15	17
Apr. 22	43	0.5	20	.030	.080	.000	.12	2.0	12	27	13	14
May 20	48	0.5	25	.028	.098	.000	.11	2.0	17	36	18	18
June 18	58	0.5	15	.032	.078	.000	.08	2.0	19	37	16	21
July 16	58	1	20	.040	.114	.000	.08	2.0	11	33	18	15
Aug. 7	70	0.5	25	.022	.108	.000	.05	2.0	14	42	20	22
Sept. 26	56	0.5	14	.028	.074	*	.04	3.0	29	61	29	32
Oct. 22	43	0.5	20	.026	.076	.000	.10	2.0	18	50	11	39
Nov. 18	39	0.5	20	.020	.074	.000	.08	2.0	14	37	13	24
Dec. 11	34	1	20	.028	.054	.000	.15	2.0	16	30	10	20

*Trace.

ANALYSES OF NEWARK AQUEDUCT WATER.

Samples from Kanouse Brook, above Pequannock River.

PARTS PER MILLION.

1913	Temperature, Fahr.	Turbidity	Color	Nitrogen as				Chlorine	Temporary Hardness (Alkalinity)	Total Solids	Loss on Ignition	Fixed Solids
				Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates					
Jan. 14	34	0.5	35	.016	.058	.000	.08	2.0	10	31	13	18
Feb. 21	38	0.5	20	.018	.050	.002	.06	2.0	17	40	14	26
Mar. 25	50	0.5	35	.040	.118	.000	.06	2.0	12	38	15	23
Apr. 22	42	0.5	40	.032	.106	.000	.10	2.0	16	33	16	17
May 20	50	1.0	40	.032	.098	.000	.08	2.0	22	47	25	22
June 18	60	2	40	.028	.116	.000	.08	2.0	29	49	20	29
July 16	61	0.5	40	.038	.134	.000	.10	2.0	25	47	22	25
Aug. 7	65	0.5	20	.028	.072	.000	.05	2.0	29	49	20	29
Sept. 26	55	0.5	20	.024	.108	.000	.04	4.0	18	94	42	52
Oct. 22	43	0.5	70	.022	.106	.000	.10	2.0	12	68	34	34
Nov. 18	38	0.5	50	.020	.110	.000	.08	2.0	14	39	16	23
Dec. 11	34	0.5	40	.044	.118	.000	.11	2.0	14	43	18	25

ANALYSES OF NEWARK AQUEDUCT WATER.

Samples from Echo Lake Stream, above Pequannock River.

PARTS PER MILLION.

1913	Temperature, Fahr.	Turbidity	Color	Nitrogen as				Chlorine	Temporary Hardness (Alkalinity)	Total Solids	Loss on Ignition	Fixed Solids
				Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates					
Jan. 14	33	0.5	40	.030	.122	.000	.15	2.0	18	54	22	32
Feb. 21	37	0.5	25	.058	.104	.001	.18	2.0	22	47	22	25
Mar. 25	49	0.5	35	.036	.128	*	.05	2.0	14	46	14	32
Apr. 22	44	0.5	30	.030	.126	.000	.12	2.0	18	49	27	22
May 20	52	0.5	40	.040	.130	.000	.07	2.0	19	44	19	25
June 18	58	0.5	25	.040	.110	.000	.17	2.0	27	57	25	32
July 16	59	0.5	20	.036	.108	.000	.13	2.0	29	50	15	35
Aug. 7	67	0.5	20	.028	.094	.000	.08	2.0	29	57	23	34
Sept. 26	54	0.5	35	.024	.124	.000	.15	3.0	30	115	37	78
Oct. 22	47	0.5	35	.026	.110	.000	.09	2.0	16	72	32	40
Nov. 18	43	0.5	50	.038	.128	.000	.08	2.0	18	57	19	38
Dec. 11	36	0.5	40	.024	.128	.000	.15	2.0	16	63	22	41

* Trace.

ANALYSES OF NEWARK AQUEDUCT WATER.

Samples from Macopin Intake, at Gatehouse.

PARTS PER MILLION.

1913	Temperature, Fahr.	Turbidity	Color	Nitrogen as				Chlorine	Temporary Hardness (Alkalinity)	Total Solids	Loss on Ignition	Fixed Solids
				Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates					
Jan. 14	33	1.0	30	.026	.074	.000	.15	2.0	14	41	12	29
Feb. 21	36	0.5	25	.036	.086	.002	.10	2.0	27	61	24	37
Mar. 25	49	0.5	30	.038	.110	*	.05	2.0	18	44	18	26
Apr. 22	46	0.5	30	.038	.100	.000	.12	2.0	20	45	17	28
May 20	56	0.5	30	.046	.094	.000	.07	2.0	23	59	20	39
June 18	60	0.5	35	.040	.112	.000	.07	2.0	30	51	21	30
July 16	62	1.0	25	.028	.096	.000	.09	2.0	16	36	18	18
Aug. 7	68	0.5	20	.022	.072	.000	.05	2.0	14	42	20	22
Sept. 26	58	0.5	25	.034	.102	*	.05	3.0	28	62	26	36
Oct. 22	47	0.5	60	.038	.130	.000	.10	2.0	20	81	36	45
Nov. 18	41	0.5	45	.038	.098	.000	.08	2.0	17	53	21	32
Dec. 11	35	0.5	35	.032	.096	.000	.16	2.0	24	64	23	41

*Trace.

ANALYSES OF NEWARK AQUEDUCT WATER.

Samples from Cedar Grove Reservoir, at Inlet Gatehouse.

PARTS PER MILLION.

1913	Temperature, Fahr.	Turbidity	Color	Nitrogen as				Chlorine	Temporary Hardness (Alkalinity)	Total Solids	Loss on Ignition	Fixed Solids
				Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates					
Jan. 14	34	1.0	30	.026	.086	.000	.15	2.0	14	49	18	31
Feb. 21	35	0.5	25	.034	.096	.001	.11	2.0	25	50	20	30
Mar. 25	50	0.5	30	.038	.132	*	.05	2.0	18	49	20	29
Apr. 22	50	0.5	30	.042	.108	.000	.10	2.0	18	43	24	19
May 20	59	0.5	25	.042	.096	.000	.07	2.0	24	48	17	31
June 18	69	0.5	30	.040	.114	.000	.07	2.0	30	50	19	31
July 16	67	1.0	30	.024	.100	.000	.08	2.0	20	39	16	23
Aug. 7	67	0.5	20	.032	.060	.000	.06	2.0	17	36	18	18
Sept. 26	62	0.5	25	.018	.084	.000	.05	2.0	30	55	20	35
Oct. 22	53	0.5	35	.030	.112	.000	.11	2.0	23	74	33	41
Nov. 18	45	0.5	45	.042	.092	.000	.08	2.0	19	57	26	31
Dec. 11	40	0.5	35	.040	.106	.000	.15	2.0	20	68	24	44

* Trace.

ANALYSES OF NEWARK AQUEDUCT WATER.

Samples from Cedar Grove Reservoir, at Outlet Gatehouse.

PARTS PER MILLION.

1913	Temperature, Fahr.	Turbidity	Color	Nitrogen as				Chlorine	Temporary Hardness (Alkalinity)	Total Solids	Loss on Ignition	Fixed Solids
				Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates					
Jan. 14	36	1.0	30	.024	.086	.000	.15	2.0	15	50	19	31
Feb. 21	35	0.5	25	.034	.096	.001	.12	2.0	25	50	19	31
Mar. 25	48	0.5	30	.038	.126	*	.05	2.0	18	50	21	29
Apr. 22	54	0.5	25	.044	.112	.000	.10	2.0	18	45	25	20
May 20	58	0.5	25	.042	.096	.000	.07	2.0	33	49	17	32
June 18	71	0.5	25	.040	.114	.000	.07	2.0	30	48	17	31
July 16	64	1.0	25	.022	.094	.000	.08	2.0	19	48	26	22
Aug. 7	69	0.5	20	.030	.060	.000	.06	2.0	17	39	19	20
Sept. 26	64	0.5	20	.030	.084	.000	.05	2.0	26	53	21	32
Oct. 22	46	0.5	35	.034	.110	.000	.10	2.0	27	73	26	47
Nov. 18	45	0.5	40	.028	.092	.000	.08	2.0	19	50	23	27
Dec. 11	34	0.5	35	.026	.094	.000	.15	2.0	20	53	23	30

* Trace.

ANALYSES OF NEWARK AQUEDUCT WATER.

Samples from Belleville Reservoir, at Inlet Gatehouse.

PARTS PER MILLION.

1913	Temperature, Fahr.	Turbidity	Color	Nitrogen as				Chlorine	Temporary Hardness (Alkalinity)	Total Solids	Loss on Ignition	Fixed Solids
				Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates					
Jan. 14	37	1.0	30	.026	.084	*	.18	2.0	17	54	20	34
Feb. 21	35	0.5	30	.042	.100	.001	.12	2.0	25	55	15	40
Mar. 25	46	0.5	30	.042	.108	*	.05	2.0	17	51	21	30
Apr. 22	51	0.5	30	.044	.106	.000	.10	2.0	19	45	15	30
May 20	58	0.5	25	.042	.104	.000	.07	2.0	20	51	24	27
June 18	66	0.5	25	.036	.098	.000	.07	2.0	28	52	24	28
July 16	69	1.0	25	.030	.106	.000	.08	2.0	19	41	18	23
Aug. 7	71	0.5	20	.030	.060	.000	.05	2.0	18	37	15	22
Sept. 26	66	0.5	20	.024	.094	.000	.05	2.0	26	62	23	39
Oct. 22	57	0.5	30	.028	.102	.000	.10	2.0	27	70	22	48
Nov. 18	47	0.5	40	.034	.100	.000	.08	2.0	20	52	20	32
Dec. 11	40	0.5	35	.032	.100	.000	.15	2.0	24	59	24	35

*Trace.

ANALYSES OF NEWARK AQUEDUCT WATER.

Samples from Laboratory Faucet, 927 Broad Street.

PARTS PER MILLION.

1913	Temperature, Fahr.	Turbidity	Color	Nitrogen as				Chlorine	Temporary Hardness (Alkalinity)	Total Solids	Loss on Ignition	Fixed Solids
				Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates					
Jan. 14	39	1.0	30	.022	.084	*	.18	2.0	17	49	19	30
Feb. 21	39	0.5	30	.038	.094	.001	.12	2.0	24	59	19	40
Mar. 25	47	0.5	30	.040	.108	*	.05	2.0	17	51	20	31
Apr. 22	51	0.5	30	.042	.106	.000	.10	2.0	19	46	15	31
May 20	58	0.5	30	.042	.102	.000	.07	2.0	20	47	23	24
June 18	66	0.5	25	.030	.112	.000	.07	2.0	29	55	28	27
July 16	69	1.0	25	.024	.088	.000	.08	2.0	19	41	19	22
Aug. 7	72	0.5	20	.028	.060	.000	.05	2.0	18	37	17	20
Sept. 26	65	0.5	20	.022	.106	.000	.05	2.0	26	60	23	37
Oct. 22	58	0.5	30	.024	.104	.000	.09	2.0	27	67	34	33
Nov. 18	47	0.5	40	.030	.094	.000	.08	2.0	20	53	23	30
Dec. 11	45	0.5	35	.032	.100	.000	.15	2.0	24	60	•16	44

* Trace.

ANALYSES OF NEWARK AQUEDUCT WATER.

Averages of Monthly Examinations.

SOURCE OF SAMPLE	Temperature, Fahr.	Turbidity	Color	Nitrogen as				Chlorine	Temporary Hardness (Alkalinity)	Total Solids	Loss on Ignition	Fixed Solids
				Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates					
Oak Ridge Stream..	47.9	1.30	32.08	.0333	.1060	*	.1259	2.75	28.17	60.33	24.83	35.50
Clinton Stream.....	47.3	0.66	19.20	.0260	.0783	*	.1200	2.08	15.75	38.50	16.08	22.42
Kanouse Brook.....	47.5	0.66	37.50	.0285	.0995	.000	.0783	2.17	18.17	48.17	21.25	26.92
Echo Lake Stream..	48.3	0.50	33.00	.0341	.1177	.000	.1185	2.08	21.33	59.25	23.08	36.17
Macopin Intake.....	49.3	0.58	32.50	.0350	.0975	.000	.0904	2.08	29.25	53.25	21.33	31.92
Cedar Grove Intake	52.6	0.58	30.00	.0341	.0988	.000	.0900	2.00	21.50	51.50	21.25	30.25
Cedar Grove Outlet	52.0	0.58	28.00	.0327	.0970	.000	.0900	2.00	21.40	50.70	21.30	29.40
Belleville Reservoir	53.6	0.58	28.30	.0342	.0970	.000	.0920	2.00	21.70	52.40	20.10	32.30
Laboratory faucet..	54.7	0.58	28.80	.0312	.0970	.000	.0910	2.00	21.70	52.10	21.30	30.80

* Trace.

The table of Maximum, Minimum and Average Total Solids in the water from the Laboratory Faucet has been continued to date:

TOTAL SOLIDS (Grains per U. S. Gallon).

	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913
Maximum ..	2.06	3.00	2.92	2.92	2.92	2.92	3.24	3.09	2.92	3.37	3.50	3.91	3.32	3.91
Minimum	1.96	1.93	1.98	1.69	2.04	1.60	2.44	2.35	2.22	2.23	2.16	2.63	1.92	2.16
Average.....	2.53	2.68	2.45	2.32	2.52	2.33	2.71	2.60	2.66	2.78	2.81	3.06	2.94	3.04

MISCELLANEOUS.

The usual miscellaneous samples of various kinds were examined and included: Candy, Vinegar, Sausage Color, Well and Spring water and seventeen (17) samples of suspected butter of which three (3) were oleomargarine.

Very respectfully,

HERBERT B. BALDWIN,

Chemist.

ANNUAL REPORT

Bureau of Contagious Diseases

NEWARK BOARD OF HEALTH

FOR THE YEAR 1913

EDWARD E. WORL, M. D.

ANNUAL REPORT

OF THE

Bureau of Contagious Diseases

FOR YEAR 1913

To D. D. Chandler, Health Officer:

DEAR SIR:—I have the honor to present the following report of the Bureau of Contagious Diseases for the year 1913.

OUR POPULATION.

Our estimated population is placed at 380,000. The last U. S. Census, 1910, gives us the figures 347,469.

The population is distributed as follows:

WARD.	POPULATION.
1	15,952
2	15,769
3	38,943
4	15,789
5	20,003
6	22,977
7	24,507
8	22,199
9	17,838
10	26,463
11	24,441
12	21,822
13	20,984
14	37,861
15	21,655
16	32,797
Total	380,000

THE DEATH RATE.

The death rate for 1913 is fixed at 14.63 per thousand. It includes, according to law, 145 deaths occurring in Soho Hospital.

The city death rate, excluding the hospital mortality, is fixed at 9.71 per thousand. The following table compares these rates, beginning with 1894:

YEAR.	POPULATION.	NO. OF DEATHS.	DEATH RATE.
1894	203,923	4,543	22.28
1895	215,725	4,615	21.37
1896	225,000	4,716	20.96
1897	230,000	4,010	17.43
1898	235,000	4,303	18.30
1899	240,000	3,537	18.90
1900	246,070	5,006	20.34
1901	250,000	4,806	19.22
1902	255,000	4,943	19.38
1903	266,000	4,923	18.50
1904	272,000	5,378	19.77
1905	283,289	5,025	17.74
1906	290,000	5,551	19.14
1907	300,000	5,724	19.08
1908	305,000	5,207	17.07
1909	311,000	5,529	17.77
1910	347,469	5,784	16.64
1911	352,000	5,337	15.16
1912	370,000	5,423	14.65
1913	380,000	5,562	14.63

SCARLET FEVER.

During 1913 we have reported 1,036 cases and 26 deaths. Comparing with the previous years we have:

YEAR.	CASES.	DEATHS.
1894	1,145	69
1895	623	35
1896	537	17
1897	1,358	54
1898	478	15
1899	607	34
1900	708	55
1901	643	23
1902	557	46
1903	779	71
1904	1,649	120
1905	1,309	45
1906	616	34
1907	773	41
1908	1,500	89
1909	1,786	70
1910	1,664	39
1911	1,027	21
1912	698	11
1913	1,036	26
	19,493	915

Average mortality for 20 years, 4 7/10%.

REPORTED CASES AND DEATHS BY MONTHS.

MONTHS.	CASES.	DEATHS.	DEATHS IN SOHO.
January	134	3	1
February	103	2	..
March	113	4	1
April	99	3	1
May	102	3	1
June	73	1	1
July	31	1	..
August	26	1	..
September	42	..	..
October	84	1	1
November	75	..	..
December	154	1	..
Total	1,036	20	+ 6
Total			26

The mortality rate was 2.5%.

According to Chapter 154, Laws 1911, the six deaths occurring at Soho Hospital must be added to the rate.

TYPHOID FEVER.

During 1913 we have reported 217 cases and 30 deaths, a mortality of 13.82%. Comparing with previous years we have:

YEAR.	CASES.	DEATHS.
1894	89	34
1895	149	50
1896	106	47
1897	103	33
1898	179	41
1899	515	60
1900	320	50
1901	316	57
1902	259	47
1903	306	63
1904	210	40
1905	228	40

1906	336	50
1907	330	69
1908	181	35
1909	210	39
1910	178	44
1911	200	37
1912	193	26
1913	217	30
	4,625	892

The average mortality for 20 years is 19.3%.

The deaths from Typhoid Fever are 7.9 to 100,000 of the population.

REPORTED TYPHOID FEVER CASES AND DEATHS BY MONTHS.

MONTH.	CASES.	DEATHS.
January	12	2
February	2	..
March	8	3
April	10	..
May	18	1
June	12	2
July	21	4
August	30	4
September	29	5
October	30	5
November	20	4
December	25	..
Total	217	30

INFANTILE PARALYSIS.

Infantile Paralysis was made reportable to local Boards of Health, August 30, 1912. During year 1913 there were reported.

MONTH.	CASES.	DEATHS.
February	1	..
May	2	..
June	1	..
July	1	..
August	6	1
September	8	..
October	3	1
November	1	..
December	1	..
	24	2

Cases reported:

1910	7
1911	33
1912	10
1913	24

DIPHTHERIA.

During 1913 we had reported 1,594 cases and 110 deaths, a mortality of 6.9%.

DIPHTHERIA CASES AND DEATHS, 1913.

YEAR.	CASES.	DEATHS.
1895	1,321	273
1896	1,261	218
1897	969	137
1898	1,019	133
1899	1,170	124
1900	1,417	143
1901	1,154	103
1902	985	105
1903	1,150	120

1904	1,653	150
1905	1,614	110
1906	1,273	99
1907	1,039	95
1908	806	66
1909	1,393	105
1910	1,585	104
1911	1,339	74
1912	1,098	91
1913	1,594	110

DIPHTHERIA—REPORTED CASES AND DEATHS BY MONTHS.

MONTHS.	CASES.	DEATHS.	DEATHS SOHO HOSPITAL.
January	182	7	9
February	165	2	4
March	159	7	5
April	125	10	3
May	107	3	3
June	114	4	3
July	69	5	2
August	88	4	..
September	90	3	3
October	128	3	1
November	192	11	2
December	175	7	9
Total	1,594	66	44

DIPHTHERIA (ANTITOXIN USED).

YEAR.	CASES.	DEATHS.	PERCENTAGE.
1895	384	52	13
1896	905	106	11
1897	563	61	11
1898	646	68	10½
1899	798	70	8 77–250
1900	987	80	8 1–10
1901	956	58	6 1–10
1902	775	61	7 4–10

1903	953	71	7 5–10
1904	1,399	95	6 7–10
1905	1,421	82	5 77–100
1906	1,171	72	6 1–10
1907	913	64	7
1908	726	49	6 7–10
1909	1,117	64	5 7–10
1910	1,252	80	6 3–10
1911	1,247	56	4 5–10
1912	1,005	76	7 56–100
1913	1,489	89	5 97–100

DIPHTHERIA (ANTITOXIN NOT USED).

YEAR.	CASES.	DEATHS.	PERCENTAGE.
1895	937	221	23
1896	356	112	31
1897	406	76	19
1898	373	65	17½
1899	372	54	14½
1900	430	63	14 6–10
1901	198	45	22 7–10
1902	210	44	19
1903	197	49	24 87–100
1904	254	55	21 65–100
1905	193	28	14 5–10
1906	102	27	26 4–10
1907	126	31	24 6–10
1908	80	17	21 2–10
1909	121	41	33 8–10
1910	133	24	18
1911	92	18	19 5–10
1912	93	15	16 12–100
1913	105	21	20

MEASLES.

Measles was made reportable to this Board April 2, 1912. The cases reported are many in number but the deaths are incomplete, many being probably registered under complications.

	CASES.	DEATHS.		CASES.	DEATHS.
January	88	..	August	57	2
February	82	..	September ..	64	..
March	195	1	October	90	..
April	226	..	November ..	237	..
May	368	2	December ...	545	2
June	411	4			
July	176	..	Total	2,539	12

Last year (1912) the cases and deaths from April to December inclusive, 818 cases, 28 deaths.

WHOOPING COUGH.

This disease was made reportable to Board of Health June 4, 1912. The cases are fairly well reported; the deaths are probably registered under complications.

For 1913 we had reported:

	CASES.	DEATHS.		CASES.	DEATHS.
January	77	..	August	128	4
February ...	70	3	September ..	74	1
March	80	..	October	50	1
April	141	5	November ..	47	2
May	205	4	December ..	52	2
June	191	..			
July	161	5	Total	1,276	27

Last year from June to December, 1912, we had 133 cases, 9 deaths.

CHICKEN POX.

This disease was made reportable by Amendment to State Law, approved July 6, 1911. We have only a partial list in reported cases 1912—211 cases.

FOR YEAR 1913.

	CASES.
January	166
February	168
March	148
April	154
May	117
June	142
July	26
August	16
September	15
October	19
November	52
December	91
Total	1,114

Of these 1,114 cases 96½% were under 15 years, 2% were between 10 and 15 years, 1½% were over 15 years old.

PURULENT OPTHALMIA.

This disease was made reportable June 4, 1912.

	CASES.
January	2
February	3
March	3
April	1
May	..
June	2
July	1
August	3
September	1
October	5
November	5
December	3
Total	29

For 1912 we had reported 14 cases.

TRACHOMA.

Made reportable under Amended Law, 1911, approved July 6, 1911. Seventy-five per cent. of these cases end in blindness.

	CASES.
January	13
February	8
March	11
April	10
May	19
June	21
July	3
August	..
September	10
October	..
November	3
December	7
Total	105

For 1912 we had 44 cases.

MALARIA.

This is made a reportable disease under amended law, 1911; approved July 6, 1911. The following cases have been reported:

1913.

	CASES.
January	1
February	1
March	1
April	3
May	12
June	7
July	5
August	7
September	5
October	5
November	2
December	1
Total	50

There was recorded one death from Malaria in January, 1913. In 1912 we had reported 39 cases, 2 deaths.

SMALLPOX.

No cases were reported for 1913, but a number of "suspects" were examined.

The following table gives our record in this disease:

YEAR.	CASES.	DEATHS.
1894	131	18
1895	13	2
1896	..	..
1897	..	..
1898	..	..
1899	22	..
1900	15	1
1901	387	71
1902	901	187
1903	25	3
1904	1	..
1905	1	..
1906	..	..
1907	20	..
1908	2	..
1909	1	..
1910	..	..
1911	..	..
1912	4	..
1913	..	..
	1,523	282

Mortality for 20 years, 18.51%.

VACCINATIONS.

1901	28,288
1902	26,043
1903	4,671
1904	5,555
1905	8,243
1906	3,052
1907	1,954
1908	1,540
1909	1,401
1910	5,156
1911	5,828
1912	6,300
1913	5,537
Total	103,568

VACCINATIONS—1913.

MONTH.	MEDICAL INSPECTORS, SCHOOLS.		CITY DISPENSARY.	
January	177		20	
February	279		30	
March	159		54	
April	469		90	
May	520		52	
June	208		40	
July	..		12	
August	..		25	
September	1,166		30	
October	1,510		23	
November	412		20	
December	228		13	
	5,128	+	409	= 5,537 Total

EPIDEMIC MENINGITIS.

During 1913 we had reported 17 cases and 8 deaths.

MONTH.	CASES.	DEATHS.
January	2	..
February	2	..
March	3	..
April	..	..
May	1	..
June	2	..
July	..	1
August	3	3
September	2	3
October	2	..
November	..	1
December	..	..
Total	17	8

Our record in this disease stands as follows:

YEAR.	CASES.	DEATHS.
1905	110	90
1906	25	20
1907	55	38
1908	11	11
1909	8	7
1910	3	1
1911	7	5
1912	7	5
1913	17	8

MUMPS.

This disease was made reportable to the Board of Health June 4, 1912. The reported cases for 1913 stand as follows:

MONTH.	CASES.	MONTH.	CASES.
January	76	August	14
February	77	September	25
March	98	October	8
April	90	November	17
May	94	December	28
June	101		
July	27	Total	655

The previous year, 1912, from June to December, 1912, inclusive, 255 cases reported.

TUBERCULOSIS.

We present here for 1913 the reported cases of Tuberculosis. This includes all forms of the disease. A slight increase in number is noted, but we consider the disease is being better reported.

REPORTED CASES—ALL FORMS TUBERCULOSIS 1913.

MONTH.	CASES.
January	196
February	134
March	167
April	196
May	214
June	181
July	145
August	150
September	124
October	133
November	151
December	132
Total	1,923

TABLE—DEATHS 1913 FROM PULMONARY TUBERCULOSIS AND ALL FORMS TUBERCULOSIS.

MONTH.	PULMONARY TUBERCULOSIS.		SOHO.		ALL FORMS TUBERCULOSIS.	
January	57		7		71	
February	40		6		50	
March	60		11		64	
April	51		10		54	
May	37		12		54	
June	31		7		42	
July	30		3		40	
August	41		10		51	
September	43		7		47	
October	53		6		59	
November	42		8		47	
December	51		8		59	
Total	536	+	95	=	638	Newark
					95	Soho
					733	Deaths

Table showing TOTAL DEATH RATE from all causes; also Deaths and Death Rates from Pulmonary Tuberculosis, and also all forms Tuberculosis.

YEAR	Total Deaths	Total Death Rate per M.	Total Deaths Pulmonary Tuberc.	Death Rate Pulmonary Tuberc.	Total Deaths All Forms Tuberc.	Death Rate All Forms Tuberc. per M.
1900	5,006	20.34	603	2.45	676	2.74
1901	4,806	19.22	581	2.32	630	2.52
1902	4,943	19.38	556	2.18	660	2.59
1903	4,923	18.50	626	2.35	718	2.70
1904	5,378	19.77	651	2.39	775	2.84
1905	5,025	17.74	647	2.28	781	2.75
1906	5,551	19.14	685	2.36	851	2.93
1907	5,724	19.08	685	2.28	797	2.65
1908	5,207	17.07	628	2.06	795	2.60
1909	5,529	17.77	596	1.916	764	2.45
1910	5,784	16.64	681	1.96	812	2.40
1911	5,337	15.16	584	1.66	707	2.01
1912	5,422	14.65	506	1.37	596	1.61
1913	5,562	14.63	631	1.66	733	1.93

INDUSTRIAL DISEASES.

Under the provisions of Chapter 351, Laws 1912, physicians are required to report certain diseases contracted as the result of occupation. These are lead, phosphorus, arsenic or mercury or their compounds, or from compressed air illness. Thirty days are allowed to report the cases and the penalty is twenty-five dollars. We group these diseases together.

CASES REPORTED 1913.

LEAD POISONING.

	CASES.
January	4
February	3
March	1
April	2
May	6
June	2
July	4
August	3
September	3
October	3
November	5
December	4
Total	40

For 1912 we had 18 cases.

ARSENIC POISONING.

One case reported in 1913.
For 1912 two cases reported.

MERCURY POISONING.

One case reported in 1913.
One case reported in 1912.

COMPRESSED AIR ILLNESS.

One case reported in 1913.

PHOSPHORUS POISONING.

No cases reported in 1913.

EPILEPSY AND MENTAL DEFICIENCY.

Under provisions Chapter 182, Laws 1912, to secure better care and supervision and to collect statistical data, physicians are required to report these diseases to local Board of Health. The penalty is $50. The following cases were reported in 1913:

EPILEPSY CASES REPORTED IN 1913.

	CASES.	DEATHS.
January	9	2
February	5	2
March	4	1
April	3	3
May	1	1
June	2	..
July	2	..
August	3	1
September	4	1
October	2	1
November	3	2
December	4	..
Total	42	14

For 1912 we had 23 cases and 7 deaths.

MENTAL DEFICIENCY REPORTED IN 1913.

	CASES.
January	5
February	6
March	10
April	2
May	3
June	6
July	6
August	2
September	22
October	25
November	16
December	6
Total	109

For 1912, 34 cases were reported.

DEATHS IN HOSPITALS AND INSTITUTIONS—1913.

Newark City Hospital	783
St. Michael's Hospital	277
German Hospital	68
St. James' Hospital	70
Babies' Hospital	101
St. Barnabas' Hospital	85
Alms House	40
Homeopathic Hospital	29
Little Sisters of the Poor	26
Home for Crippled Children	8
Beth Israel Hospital	96
Newark Sanatorium	6
Newark Private Hospital	21
Police Ambulance	5
Home for Aged Women	23
Women's and Children's Hospital	19
Home for Incurables	21
House Good Shepherd	5
Eye and Ear Infirmary	5
Essex County Jail	1
Krueger Greisenheim	1
Presbyterian Hospital	18
Lenox Hotel	1
Maternity Hospital	4
Physicians' and Surgeons' Hospital	1
West Side Public School	1
Post Office Building	2
Lyric Theatre	1
Police Headquarters	3
Fire Automobile	1
Hays Foundry	1
St. Antoninus' Church	1
Kensington Hotel	1
Essex County Hospital	1
Total	1,726

Our deaths in institutions equal 31.03% of the total mortality, 5,562 deaths.

BIRTHS REPORTED FOR YEAR 1913.

White	10,513
Colored	297
Male	5,518
Female	5,291
Native Father	4,127
Native Mother	4,455
Foreign Father	6,609
Foreign Mother	6,344
Name stated	9,732
Name not stated	1,078
Legitimate	10,664
Illegitimate	146
No sex stated	1
Total births reported	10,810
Rate per thousand	28.44

STILL BIRTHS REPORTED 1913.

Male	295
Female	197
Not stated	3
Mother native	188
Mother foreign	287
Mother not stated	17
Father native	216
Father foreign	257
Father not stated	19
White	464
Colored	28
Total still births	492
Rate	1.29 per thousand

MARRIAGES REPORTED 1913.

White Male	3,879
White Female	3,879
Colored Male	153
Colored Female	153
Native Male	1,990
Foreign Male	2,042
Native Female	2,004
Foreign Female	2,028
First Marriage Male	3,664
First Marriage Female	3,714
Second Marriage Male	354
Third Marriage Male	14
Second Marriage Female	311
Third Marriage Female	7
Total Marriages	4,032
Rate per thousand	10.61

CASES AND DEATHS (NEWARK CASES) SENT TO ESSEX COUNTY ISOLATION HOSPITAL, SOHO, N. J., 1913

MONTH	Tuberculosis		Scarlet Fever		Diphtheria	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
January	29	7	23	1	46	9
February	16	6	18	....	53	4
March	23	11	19	1	38	5
April	25	10	20	1	18	3
May	28	12	16	1	19	3
June	30	7	12	1	33	3
July	16	3	7	....	17	2
August	23	10	2	....	18	....
September	21	7	14	....	9	3
October	21	6	23	1	14	1
November	20	8	13	....	46	2
December	20	8	31	....	48	9
Totals	272	95	198	6	359	44

Total cases, 829. Total deaths, 145.

DIPHTHERIA BY WARDS—1913

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total
January	9	2	19	4	5	20	10	4	17	20	8	5	21	16	4	18	182
February	12	3	16	4	6	32	9	6	13	9	6	5	6	17	6	15	165
March	23	3	20	3	4	17	14	12	4	2	5	6	8	18	7	13	159
April	6	0	20	3	10	7	8	10	4	4	5	5	4	18	5	16	125
May	8	9	13	2	5	7	11	4	3	8	1	5	4	12	5	10	107
June	29	3	14	0	4	5	8	5	6	4	7	7	1	9	6	6	114
July	6	5	10	2	3	4	3	3	5	4	1	3	4	7	4	6	69
August	8	4	25	0	4	5	2	0	4	5	2	3	4	10	6	6	88
September	7	2	26	0	3	8	4	5	2	2	0	5	4	12	2	8	90
October	10	2	30	0	6	7	10	2	5	8	3	3	14	15	3	10	128
November	8	6	35	3	9	7	22	6	10	13	5	7	17	22	5	17	192
December	9	12	32	7	4	14	8	5	5	14	5	8	12	24	6	10	175
Totals																	1,594

SCARLET FEVER BY WARDS—1913

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total
January	12	5	7	3	14	13	3	16	6	3	15	4	9	6	3	15	134
February	13	3	11	2	6	8	8	13	5	3	6	4	3	12	1	5	103
March	6	4	12	6	1	5	10	11	6	3	11	9	9	6	3	11	113
April	7	1	14	4	6	7	7	9	2	5	2	9	3	11	8	4	99
May	7	2	10	5	5	11	3	11	4	4	1	8	6	11	4	10	102
June	3	1	7	1	6	4	1	5	6	6	1	4	4	15	1	8	73
July	0	1	6	0	0	0	1	2	1	1	1	1	4	10	1	2	31
August	1	0	4	0	0	1	1	0	4	1	1	0	5	3	2	3	26
September	1	0	10	0	2	3	1	0	2	9	0	3	2	7	0	2	42
October	8	3	21	0	1	3	8	2	2	8	0	1	3	16	2	6	84
November	1	2	20	3	0	5	2	4	3	4	2	2	2	17	1	7	75
December	6	9	37	2	4	4	7	6	13	2	4	4	10	13	4	29	156
Totals																	1,036

TYPHOID FEVER BY WARDS—1913

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total
January	1	0	1	2	0	1	1	0	1	0	1	2	0	0	0	2	12
February	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
March	1	0	0	1	0	1	1	0	0	0	0	2	0	1	0	1	8
April	0	2	2	0	0	0	1	2	1	0	1	0	0	0	0	1	10
May	0	0	2	0	1	1	0	2	0	4	2	1	1	2	1	1	18
June	0	0	1	0	1	1	1	0	2	0	0	2	2	1	1	0	12
July	1	0	1	2	2	2	1	1	2	0	0	1	2	3	0	3	21
August	5	1	1	2	3	0	0	3	0	0	3	4	0	4	0	4	30
September	0	2	2	2	4	2	2	2	3	1	2	1	3	1	1	1	29
October	0	3	3	0	1	1	0	4	0	0	2	1	5	4	1	5	30
November	2	1	1	0	0	1	3	0	3	2	0	0	1	2	1	3	20
December	0	2	3	0	1	3	1	2	4	1	2	0	1	2	1	2	25
Totals																	217

CLASSIFIED

MORTUARY REPORT

1913

DISEASES	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
I.—General Diseases.													
(a. Epidemic Diseases)													
Typhoid Fever	2	0	3	0	1	2	4	4	5	5	4	0	30
Malaria	1	0	0	0	0	0	0	0	0	0	0	0	1
Measles	0	0	1	1	0	2	4	2	0	0	0	2	12
Scarlet Fever	3	2	4	3	3	1	1	1	0	1	0	1	20
Whooping Cough	0	3	0	5	4	0	5	4	1	1	2	2	27
Diphtheria and Croup	7	2	7	10	3	4	5	4	3	3	11	7	66
Influenza	2	2	2	3	1	0	0	0	0	0	2	0	12
Cholera Morbus	0	0	0	0	0	0	0	0	0	0	0	0	0
Dysentery	0	0	0	0	0	0	1	0	0	0	0	0	1
Erysipelas	2	9	4	4	5	4	1	4	1	1	1	3	39
Other Epidemic Diseases	0	1	0	0	0	0	0	0	0	0	0	0	1
(b. Other General Diseases)													
Rabies	0	1	0	0	1	0	0	0	0	0	0	0	2
Purulent Infection and Septicaemia	2	1	1	2	0	3	2	3	2	1	1	4	22
Tuberculosis—													
Lungs	57	40	60	51	37	31	30	41	43	53	42	51	536
Larynx	2	2	0	0	0	0	1	1	1	0	0	0	7
Meninges	7	3	2	1	6	7	7	4	1	3	2	4	47
Abdominal	0	1	0	0	4	3	1	1	2	2	0	1	15
General Tuberculosis	3	4	1	1	6	0	0	2	0	0	1	1	19
Potts Disease	0	0	0	0	1	0	1	1	0	0	0	0	3

MORTUARY REPORT—1913—*Continued.*

DISEASES	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Other Forms of Tuberculosis	2	0	1	1	0	1	0	1	0	1	2	2	11
Scrofula	0	0	0	0	0	0	0	0	0	0	0	0	0
Syphilis	2	2	2	2	2	0	1	0	1	2	1	1	16
Cancer and Malignant Tumors—													
Buccal Cavity	3	1	1	1	2	1	2	0	2	1	4	4	22
Stomach and Liver	8	9	10	9	8	9	9	9	9	6	8	12	106
Peritonum, Intestines, Rectum	1	4	6	6	6	6	3	3	3	7	0	6	51
Female Genital Organs	2	5	3	6	1	2	3	3	2	3	4	2	36
Breast	0	0	2	2	2	3	1	0	2	3	3	1	19
Skin	0	0	0	0	0	0	0	1	0	0	0	0	1
Organs not specified	5	2	1	2	7	3	4	6	2	3	3	2	40
Other Tumors	3	3	4	4	1	2	2	6	4	2	3	2	36
Acute Articular Rheumatism	0	1	0	0	1	0	0	0	0	0	1	0	3
Chronic Rheumatism and Gout	0	1	1	1	0	0	0	1	0	1	1	0	6
Diabetes	7	8	7	5	4	1	10	2	5	6	5	10	70
Exopthalmic Goitre	1	0	0	1	0	2	0	0	0	2	0	0	6
Leukemia	0	0	1	0	0	0	1	0	0	1	0	3	6
Anemia—Chlorosis	1	2	5	2	3	5	1	0	0	2	1	1	23
Acute and Chronic Alcoholism	5	5	8	3	9	13	8	13	5	5	4	1	79
Other Chronic Poisonings	0	0	0	0	0	0	0	0	0	0	0	0	0
Other General Diseases	0	0	0	1	0	0	0	1	0	0	0	0	2
Chronic Lead Poisoning	0	0	1	0	0	0	0	0	1	0	0	0	2
Addison's Disease	0	0	0	0	1	0	0	0	0	0	0	0	1

DISEASES	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
II.—Nervous System													
Encephalitis	1	0	0	1	0	0	0	0	0	0	0	0	2
Simple Meningitis	4	4	7	5	1	1	2	6	0	2	3	4	39
Epidemic Meningitis	0	0	0	0	0	0	1	3	3	0	1	0	8
Locomotor Ataxia	1	0	1	1	0	0	0	1	2	0	0	1	7
Other Diseases of Spinal Chord	0	0	0	0	0	0	0	0	0	0	0	1	1
Congestion and Hemorrhage of Brain	30	34	25	24	22	23	26	23	13	28	21	39	308
Softening of Brain	0	2	1	2	0	0	0	1	0	1	1	1	9
Paralysis, without specified cause	0	2	1	4	3	6	1	1	1	4	0	3	26
General Paralysis	1	0	0	1	0	1	0	1	2	0	0	0	6
Other Forms of Mental Alienation	0	0	1	2	0	2	3	1	2	2	1	2	16
Epilepsy	2	2	1	3	1	0	0	1	1	1	2	0	14
Convulsions (over 5 years)	0	0	0	0	0	0	0	0	0	0	0	0	0
Convulsions (under 5 years)	6	5	5	7	4	0	2	3	1	7	3	3	46
Chorea	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetanus	1	0	0	0	1	1	0	0	1	0	0	0	4
Other Diseases of Nervous System	3	2	1	3	1	3	1	0	1	3	1	2	21
Diseases of Ear	0	2	1	0	0	0	1	0	1	1	0	0	6
Infantile Paralysis	0	0	0	0	0	0	0	1	0	1	0	0	2

MORTUARY REPORT—1913—*Continued.*

DISEASES	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totai
III.—Circulatory System													
Pericarditis	0	0	1	0	1	0	0	0	0	0	0	1	3
Acute Endocarditis	12	9	7	7	3	6	6	4	7	5	1	14	81
Organic Diseases of Heart	43	63	46	41	66	52	47	33	32	41	51	65	580
Angina Pectoris	1	3	0	2	0	0	1	1	1	3	3	3	18
Diseases of Arteries—Aneruism	7	6	6	5	3	5	3	3	2	5	2	2	49
Embolism and Thrombosis	4	0	7	4	1	5	7	2	1	0	3	3	37
Diseases of Lymphatic System	0	0	0	0	0	0	0	0	1	0	0	0	1
Hemorrhages	1	3	1	1	1	3	3	2	1	1	0	0	17
Other Diseases of Circulatory System	15	5	0	0	0	1	1	0	0	0	1	1	24
Diseases of Veins	0	0	1	0	0	0	0	0	0	0	0	1	2
IV.—Respiratory System													
Diseases of Larynx	1	0	0	0	0	0	0	0	0	0	0	1	2
Acute Bronchitis	3	5	6	8	1	3	0	1	0	4	7	5	43
Chronic Bronchitis	4	10	5	3	2	4	2	0	1	1	2	4	38
Broncho-Pneumonia	31	28	41	30	25	21	17	9	9	11	20	33	275
Pneumonia	40	39	50	27	19	22	9	11	11	15	28	33	304
Pleurisy	0	3	2	5	2	2	0	4	1	0	1	2	22
Congestion and Apoplexy of Lungs	0	0	0	0	0	0	0	1	0	1	0	0	2
Gangrene of Lungs	0	1	0	0	0	0	0	0	0	0	0	0	1

MORTUARY REPORT—1913—*Continued.*

DISEASES	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Asthma	2	4	3	3	3	1	0	1	2	0	2	2	23
Pulmonary Emphysema	0	0	0	0	0	0	1	0	0	0	1	1	3
Other Diseases of Respiratory Organs	0	1	6	2	3	2	2	3	2	0	0	0	21
V.—Digestive System													
Diseases of Mouth and Adnexa	0	0	2	1	0	2	1	1	1	0	0	0	8
Diseases of Oesophagus	0	0	1	0	0	0	0	0	0	1	0	0	2
Ulcer of Stomach	3	1	2	3	4	2	1	2	1	2	0	0	21
Other Diseases Stomach, except Cancer	2	2	2	3	3	1	1	2	3	2	2	0	23
Diarrhea and Enteritis (under 2 years)	13	6	5	3	11	19	82	54	46	25	7	11	282
Diarrhea and Enteritis (over 2 years)	1	0	1	3	3	3	5	6	9	1	1	0	33
Hernia and Intestinal Obstruction	7	8	8	1	2	3	5	6	2	3	5	4	54
Acute Yellow Atrophy of Liver	0	0	0	0	0	0	0	0	0	0	0	0	0
Cirrhosis of Liver	9	7	8	10	5	4	5	6	6	4	3	5	72
Biliary Calculi	0	2	0	1	3	0	1	0	2	1	1	0	11
Other Diseases of Liver	4	0	1	1	1	2	1	2	2	1	1	1	17
Simple Peritonitis	3	1	3	1	0	2	4	2	2	0	0	0	18
Appendicitis	3	1	3	4	2	9	3	2	1	6	2	3	39
Other Diseases of Digestive System	1	1	0	0	0	1	0	0	2	0	1	0	6

MORTUARY REPORT—1913—*Continued.*

DISEASES	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
VI.—Genito-Urinary System													
Acute Nephritis	4	5	5	3	6	5	4	3	2	2	3	4	46
Bright's Disease	24	37	48	24	38	34	28	25	31	31	35	33	388
Other Diseases of Kidneys	2	2	1	4	0	0	0	0	1	2	1	2	15
Calculi of Urinary Tract	0	0	1	0	0	0	0	0	0	0	1	0	2
Diseases of Bladder	2	0	1	1	2	0	0	1	0	0	0	0	7
Diseases of Prostate	0	1	0	1	0	0	0	0	0	1	0	0	3
Diseases of Uterus	0	1	0	0	0	0	0	0	0	0	0	0	1
Cysts and Tumors of Ovary	0	0	0	0	0	0	1	0	0	0	1	0	2
VII.—Puerperal State													
Accidents of Pregnancy	1	1	0	0	2	0	0	0	1	0	0	0	5
Puerperal Hemorrhage	1	0	0	2	4	2	2	1	0	0	1	1	14
Other Accidents of Labor	1	1	2	1	1	0	2	1	0	0	0	0	9
Puerperal Septicaemia	4	5	1	4	1	3	3	1	4	2	2	5	35
Puerperal Albuminuria and Convulsions	0	0	0	1	2	1	1	1	0	3	1	0	10
Other Puerperal Accidents	1	0	2	1	1	0	0	1	0	0	0	1	7
VIII.—Diseases of Skin													
Gangrene	0	1	2	0	0	1	1	0	0	0	0	0	5
Furuncle—Carbuncle	0	0	0	0	0	0	0	0	0	0	0	0	0
Acute Abscess and Phlegmon	0	0	0	1	1	1	1	0	1	0	2	1	8
Other Diseases of Skin	1	0	1	2	1	0	2	1	0	0	0	1	9

DISEASES	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
IX.—Organs of Locomotion													
Non-Tubercular Diseases of Bones	0	0	0	1	0	0	0	0	0	0	0	0	1
Rickets	0	0	1	0	2	0	0	0	0	0	0	2	5
Arthritis and Other Diseases of Joints	0	0	0	0	1	0	0	0	0	0	0	0	1
Other Diseases Organs of Locomotion	0	0	0	0	0	0	0	0	0	0	0	1	1
Amputation	0	0	0	0	0	0	0	0	0	0	1	0	1
X.—Malformation.													
Congenital Malformation	3	4	6	4	3	0	2	1	2	3	5	6	39
XI.—Early Infancy													
Congenital Debility—Icterus	0	12	5	2	2	0	0	2	13	4	0	2	42
Other Diseases of Early Infancy	27	9	16	20	26	26	42	27	9	42	25	35	304
Lack of Care	1	0	0	0	0	0	0	0	0	0	0	0	1
XII.—Old Age													
Senile Debility	5	7	7	5	5	4	3	4	4	7	5	10	66
XIII.—External Causes.													
Sucide by—													
Poison	0	0	1	1	0	1	2	1	1	3	2	1	13
Asphyxia	2	0	4	2	2	2	0	0	2	3	1	4	22
Hanging	0	0	0	1	1	0	0	0	2	0	2	1	7

MORTUARY REPORT—1913—*Continued.*

DISEASES	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Drowning	1	0	1	0	0	1	1	1	0	3	0	0	8
Firearms	1	0	0	0	2	0	3	0	0	0	2	1	9
Cutting Instruments	0	0	1	0	0	0	0	0	0	0	1	1	3
Crushing	0	0	0	0	3	0	0	1	0	0	0	0	4
Other Suicides	0	0	0	0	1	0	0	0	0	0	0	0	1
Homicide	2	1	2	1	3	0	3	3	0	0	0	2	17
Fractures	11	9	7	2	8	5	13	4	5	13	5	7	89
Burns and Scalds	5	5	2	1	7	3	3	2	11	4	2	2	47
Burns from Corrosive Substances	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunstroke	0	0	0	0	0	0	7	2	0	0	0	0	9
Freezing	0	0	0	0	0	0	0	0	0	0	0	0	0
Electric Shock	0	0	0	0	0	0	0	0	0	1	0	0	1
Accidental Drowning	0	1	4	2	1	4	3	7	1	2	0	0	25
Inanition (Starvation)	0	0	2	0	0	0	0	0	0	0	1	0	3
Absorption of Gases (non-suicidal)	4	3	3	1	0	0	0	1	1	2	1	3	19
Other Acute Poisons	1	1	0	0	1	1	1	1	1	0	0	1	8
Other Accidental Traumatisms	7	4	5	2	5	6	2	0	3	8	10	2	54
Other External Violence	0	0	0	2	1	0	1	0	0	1	2	1	8
XIV.—Ill-Defined Causes													
Causes Unspecified or Ill-Defined	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	498	486	531	441	499	416	484	411	366	435	396	504	5,417

AGE	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Soho Deaths
Under 1 year	76	67	74	77	64	63	145	110	83	88	65	75	987	+ 12= 999
1 to 2 years	20	18	26	24	24	22	27	15	19	14	13	21	243	+ 8= 251
2 to 5 years	17	13	21	9	20	19	21	18	13	18	15	20	204	+ 18= 222
5 to 20 years	18	29	26	21	25	25	24	21	28	30	21	27	295	+ 24= 319
20 to 60 years	213	209	233	192	183	167	173	164	142	168	189	219	2,252	+ 83= 2,335
Over 60 years	154	150	151	118	133	120	94	83	81	117	93	142	1,436	+ 0= 1,436
Totals	498	486	531	441	449	416	484	411	366	435	396	504	5,417	+145= 5,562
COLOR														
White	486	454	505	424	437	404	457	400	354	409	369	493	5,192	+145= 5,337
Colored	11	32	25	16	12	11	27	11	11	26	26	10	218	+ 0= 218
Yellow	1	0	1	1	0	1	0	0	1	0	1	1	7	+ 0= 7
Totals	498	486	531	441	449	416	484	411	366	435	396	504	5,417	+145= 5,562
SEX														
Male	293	270	299	244	255	207	298	223	217	254	201	275	3,036	+ 94= 3,130
Female	205	216	232	197	194	209	186	188	149	181	195	229	2,381	+ 51= 2,432
Totals	498	486	531	441	449	416	484	411	366	435	396	504	5,417	+145= 5,562

Rate—14.637 per thousand.

Respectfully submitted,

EDWARD E. WORL, M. D.,
Superintendent Bureau Contagious Diseases.

ANNUAL REPORT

OF THE

Medical Director of the Newark

City Sanatorium for Tuberculosis

ANNUAL REPORT

Medical Director of the Newark

City Sanatorium for Tuberculosis

David D. Chandler, Esq., Health Officer:

DEAR SIR:—I have the honor to present the following report of the work of the Newark City Sanatorium for Tuberculosis, Verona, N. J., for the year ending December 31st, 1913.

The Sanatorium was opened January 21, 1908, for the reception of patients. During 1908 129 patients were admitted, of whom 72 were discharged, leaving in the institution January 1, 1909, 57 patients.

During 1909 there were 147 admissions and 154 patients discharged, leaving in the institution January 1, 1910, 50 patients.

During 1910 there were 156 patients admitted and 153 discharged, leaving in the institution January 1, 1911, 53 patients.

During 1911 there were 157 patients admitted and 166 patients discharged, leaving in the institution January 1, 1912, 44 patients.

During 1912 there were 213 patients admitted and 200 patients discharged, leaving in the institution January 1, 1913, 57 patients.

During 1913 there were 172 patients admitted and 188 patients discharged, leaving in the institution January 1, 1914, 41 patients.

TABLE I.

Patients in Institution January 1, 1913	57
Patients admitted during 1913	172
Patients treated in 1913	229
Patients discharged 1913	188
Patients in Institution January 1, 1914	41

TABLE II.

Admissions and Discharges Monthly, 1913.

	ADMITTED.	DISCHARGED.
January	16	15
February	16	21
March	14	12
April	23	20
May	16	17
June	20	19
July	12	12
August	10	22
September	9	18
October	8	15
November	15	4
December	13	13
Totals	172	188

TABLES III. AND IV.

General Results.

		QUIESCENT.	IMPROVED.	UNIMPROVED.
Incipient Tuberculosis	109	36	69	4
Mod. Adv. "	75	11	43	21
Advanced "	4	0	0	4
	188	47	112	29

RESULT	1908		1909		1910		1911		1912		1913	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Apparently cured	6	11.1	10	7.6	6	4.4	3	2.0	...	.....	....	.....
Arrested	22	40.7	55	41.6	68	49.6	45	30.6	32	16.0	47	25.2
Improved	19	35.2	45	34.1	48	35.0	72	49.0	130	65.0	112	59.5
Unimproved	6	11.1	22	16.6	14	10.2	25	17.0	37	18.5	28	14.8
Deaths	1	1.8	....	.....	1	0.7	2	1.4	1	0.5	1	0.5
Totals	54		132		137		147		200		188	

TABLE V.

Gain and Loss of Weight.

	1908	1909	1910	1911	1912	1913
Patients who gained weight	45	124	122	121	177	158
Patients who lost weight	9	8	15	26	23	30
Totals	54	132	137	147	200	188
Average gain per patient	13.9	14.53	14.65	11.26	11.4	11.27
Average loss per patient, lbs	5.2	4.6	5.	6.3	7.56	2.9

Maximum Individual Gain.

Male Patients was ..... 36 lbs. 8 ozs.
Female Patient was ..... 19 lbs. 12 ozs.

TABLE VI.

Under 15 years	4
15 to 20 years	39
20 to 30 "	76
30 to 40 "	34
40 to 50 "	29
Over 50 years	6
Total	188

TABLE VII.

Married	95
Single	93
Total	188

TABLE VIII.

Occupations.

Factory hand	33	Dressmaker	3
Machinist	12	Salesman	3
Clerk	9	Stone Grinder	1
Hatter	4	Tool Maker	1
Shoe Cutter	5	Baker	3
Waiter	4	Polisher	2
Stenographer	3	Insurance Agent	4
Rodman	1	Night Watchman	1
Carpenter	4	Tailor	5
Stone Polisher	1	Steam Fitter	1
Iron Moulder	4	Police Matron	1
Cigar Maker	2	Peddler	2
Collector	3	Laundress	1
Housework	26	Engineer	2
School	7	Caterer	1
Press Hand	2	Motorman	4
Police Officer	2	Mason	1
Painter	1	Electrician	1
Printer	2	Plumber	1
Driver	7	Jeweler	2
Laborer	6	Paper Hanger	1
Tinsmith	1	Chauffeur	1
Structural Iron Worker	1	Leather Finisher	2
Bartender	4		
		Total	188

The average length of stay of 131 patients admitted and discharged in 1913 (less 17 patients staying less than 30 days) is 3 months, 9.25 days.

Respectfully submitted,

JOHN L. MEEKER, M. D.,
Medical Director.

Tables I, II and III

Condition, Result and Number of Days Treated in Institution

1913

TABLE I.

PATIENTS ADMITTED 1912: REMAINING IN INSTITUTION JANUARY 1, 1913.

No. of Patient	Diagnosis	No. of Days 1912	No. of Days 1913	Total Days	Result
723	Incipient Tuberc.	140	14	154	Improved
732	Incipient Tuberc.	123	28	151	Improved
735	Mod. Adv. Tuberc.	119	8	127	Improved
737	Incipient Tuberc.	117	4	121	Improved
740	Incipient Tuberc.	105	18	123	Improved
742	Incipient Tuberc.	104	90	194	Arrested
743	Incipient Tuberc.	121	18	139	Improved
744	Incipient Tuberc.	104	32	136	Improved
746	Incipient Tuberc.	99	51	150	Improved
747	Mod. Adv. Tuberc.	99	124	223	Unimproved
748	Mod. Adv. Tuberc.	96	99	195	Improved
749	Incipient Tuberc.	95	19	114	Improved
750	Incipient Tuberc.	94	39	133	Arrested
752	Incipient Tuberc.	89	13	102	Improved
754	Mod. Adv. Tuberc.	87	29	116	Improved
755	Mod. Adv. Tuberc.	85	28	113	Improved
756	Incipient Tuberc.	84	91	175	Improved
757	Incipient Tuberc.	83	91	174	Improved
758	Mod. Adv. Tuberc.	83	51	134	Unimproved
759	Mod. Adv. Tuberc.	83	40	123	Unimproved
760	Incipient Tuberc.	76	47	123	Improved
762	Mod. Adv. Tuberc.	74	110	184	Improved
764	Incipient Tuberc.	70	51	121	Improved
765	Incipient Tuberc.	70	27	97	Improved
766	Incipient Tuberc.	70	51	121	Improved
767	Mod. Adv. Tuberc.	70	53	123	Improved
768	Mod. Adv. Tuberc.	67	52	119	Improved
769	Mod. Adv. Tuberc.	63	18	81	Unimproved
770	Mod. Adv. Tuberc.	63	53	116	Improved
771	Incipient Tuberc.	62	47	109	Improved

TABLE I—*Continued.*

PATIENTS ADMITTED 1912: REMAINING IN INSTITUTION JANUARY 1, 1913.

No. of Patient	Diagnosis	No. of Days 1912	No. of Days 1913	Total Days	Result
772	Incipient Tuberc.	61	84	145	Improved
773	Incipient Tuberc.	60	91	151	Improved
774	Mod. Adv. Tuberc.	57	15	72	Improved
776	Mod. Adv. Tuberc.	53	53	106	Unimproved
778	Incipient Tuberc.	49	53	102	Arrested
779	Mod. Adv. Tuberc.	42	83	125	Unimproved
780	Incipient Tuberc.	43	47	90	Improved
781	Incipient Tuberc.	42	61	103	Improved
782	Mod. Adv. Tuberc.	40	111	151	Improved
783	Mod. Adv. Tuberc.	40	79	119	Arrested
784	Incipient Tuberc.	40	111	151	Improved
785	Incipient Tuberc.	40	109	149	Improved
786	Mod. Adv. Tuberc.	36	74	110	Improved
789	Incipient Tuberc.	28	123	151	Arrested
790	Mod. Adv. Tuberc.	28	155	183	Improved
791	Mod. Adv. Tuberc.	27	154	181	Improved
792	Incipient Tuberc.	25	79	104	Improved
793	Mod. Adv. Tuberc.	20	100	120	Unimproved
794	Advanced Tuberc.	17	218	235	Unimproved
795	Incipient Tuberc.	16	72	88	Arrested
796	Mod. Adv. Tuberc.	15	57	72	Unimproved
797	Advanced Tuberc.	4	31	35	Unimproved
798	Incipient Tuberc.	5	28	33	Improved
799	Mod. Adv. Tuberc.	3	117	120	Improved
800	Incipient Tuberc.	2	120	122	Arrested
801	Mod. Adv. Tuberc.	1	162	163	Unimproved
802	Incipient Tuberc.	1	179	180	Arrested

TABLE II.

PATIENTS ADMITTED AND DISCHARGED, 1913.

Number of Patient	Diagnosis	Result	No. of Days Treated in 1913
803	Incipient Tuberc.	Arrested	120
804	Incipient Tuberc.	Improved	121
805	Mod. Adv. Tuberc.	Arrested	113
806	Incipient Tuberc.	Improved	95
807	Mod. Adv. Tuberc.	Arrested	119
808	Incipient Tuberc.	Improved	28
809	Mod. Adv. Tuberc.	Arrested	116
810	Mod. Adv. Tuberc.	Arrested	122
811	Incipient Tuberc.	Improved	49
812	Incipient Tuberc.	Improved	105
813	Mod. Adv. Tuberc.	Improved	53
814	Mod. Adv. Tuberc.	Improved	114
815	Mod. Adv. Tuberc.	Unimproved	4
816	Mod. Adv. Tuberc.	Unimproved	4
817	Mod. Adv. Tuberc.	Unimproved	140
818	Mod. Adv. Tuberc.	Unimproved	10
819	Mod. Adv. Tuberc.	Improved	117
820	Mod. Adv. Tuberc.	Unimproved	22
821	Incipient Tuberc.	Arrested	181
822	Incipient Tuberc.	Improved	120
823	Mod. Adv. Tuberc.	Improved	62
824	Incipient Tuberc.	Arrested	75
825	Mod. Adv. Tuberc.	Unimproved	151
826	Incipient Tuberc.	Arrested	122
827	Mod. Adv. Tuberc.	Improved	64
828	Incipient Tuberc.	Improved	122
829	Mod. Adv. Tuberc.	Unimproved	118
830	Mod. Adv. Tuberc.	Improved	55
831	Incipient Tuberc.	Arrested	94
832	Incipient Tuberc.	Improved	17
833	Incipient Tuberc.	Unimproved	57
834	Mod. Adv. Tuberc.	Unimproved	139
835	Mod. Adv. Tuberc.	Improved	79
836	Incipient Tuberc.	Improved	28
837	Mod. Adv. Tuberc.	Unimproved	15
838	Incipient Tuberc.	Arrested	52
839	Mod. Adv. Tuberc.	Unimproved	84
840	Mod. Adv. Tuberc.	Improved	46

TABLE II—*Continued.*

PATIENTS ADMITTED AND DISCHARGED, 1913.

Number of Patient	Diagnosis	Result	No. of Days Treated in 1913
841	Mod. Adv. Tuberc.	Improved	149
842	Mod. Adv. Tuberc.	Arrested	122
843	Mod. Adv. Tuberc.	Unimproved	136
844	Mod. Adv. Tuberc.	Improved	133
845	Incipient Tuberc.	Arrested	130
846	Incipient Tuberc.	Improved	117
847	Mod. Adv. Tuberc.	Improved	133
848	Incipient Tuberc.	Unimproved	13
849	Mod. Adv. Tuberc.	Improved	149
850	Incipient Tuberc.	Improved	62
851	Incipient Tuberc.	Arrested	56
852	Incipient Tuberc.	Unimproved	124
853	Incipient Tuberc.	Improved	121
854	Mod. Adv. Tuberc.	Improved	61
855	Mod. Adv. Tuberc.	Arrested	122
856	Incipient Tuberc.	Arrested	134
857	Incipient Tuberc.	Arrested	144
858	Incipient Tuberc.	Improved	45
859	Incipient Tuberc.	Arrested	94
860	Advanced Tuberc.	Unimproved	35
861	Incipient Tuberc.	Improved	79
862	Incipient Tuberc.	Improved	58
863	Incipient Tuberc.	Arrested	121
864	Mod. Adv. Tuberc.	Unimproved	126
865	Mod. Adv. Tuberc.	Improved	121
866	Incipient Tuberc.	Improved	117
867	Incipient Tuberc.	Improved	64
868	Mod. Adv. Tuberc.	Arrested	126
869	Incipient Tuberc.	Improved	130
870	Incipient Tuberc.	Arrested	120
871	Mod. Adv. Tuberc.	Arrested	119
872	Incipient Tuberc.	Arrested	124
873	Incipient Tuberc.	Improved	51
874	Incipient Tuberc.	Improved	44
875	Mod. Adv. Tuberc.	Improved	121
876	Incipient Tuberc.	Improved	62
877	Advanced Tuberc.	Unimproved	21
878	Mod. Adv. Tuberc.	Improved	117

TABLE II—*Continued.*

PATIENTS ADMITTED AND DISCHARGED, 1913.

Number of Patient	Diagnosis	Result	No. of Days Treated in 1913
879	Incipient Tuberc.	Arrested	123
880	Incipient Tuberc.	Arrested	48
881	Incipient Tuberc.	Improved	204
882	Mod. Adv. Tuberc.	Unimproved	107
883	Incipient Tuberc.	Improved	43
884	Incipient Tuberc.	Arrested	124
886	Incipient Tuberc.	Improved	22
887	Incipient Tuberc.	Arrested	167
888	Mod. Adv. Tuberc.	Improved	127
889	Incipient Tuberc.	Improved	122
890	Incipient Tuberc.	Improved	119
891	Incipient Tuberc.	Improved	62
892	Mod. Adv. Tuberc.	Improved	30
893	Incipient Tuberc.	Improved	121
894	Incipient Tuberc.	Improved	38
895	Incipient Tuberc.	Arrested	66
896	Incipient Tuberc.	Unimproved	11
897	Incipient Tuberc.	Arrested	126
898	Mod. Adv. Tuberc.	Arrested	115
899	Incipient Tuberc.	Improved	46
900	Mod. Adv. Tuberc.	Unimproved	22
901	Mod. Adv. Tuberc.	Improved	75
902	Incipient Tuberc.	Arrested	142
903	Mod. Adv. Tuberc.	Improved	107
904	Incipient Tuberc.	Arrested	124
905	Incipient Tuberc.	Arrested	73
906	Mod. Adv. Tuberc.	Improved	115
907	Incipient Tuberc.	Arrested	113
908	Incipient Tuberc.	Improved	91
909	Incipient Tuberc.	Improved	67
910	Incipient Tuberc.	Arrested	100
911	Incipient Tuberc.	Arrested	126
913	Incipient Tuberc.	Improved	59
914	Incipient Tuberc.	Unimproved	55
915	Incipient Tuberc.	Improved	47
916	Incipient Tuberc.	Improved	54
917	Mod. Adv. Tuberc.	Improved	62
920	Incipient Tuberc.	Improved	49

TABLE II—*Continued.*

PATIENTS ADMITTED AND DISCHARGED, 1913.

Number of Patient	Diagnosis	Result	No. of Days Treated in 1913
922	Mod. Adv. Tuberc.	Improved	122
923	Incipient Tuberc.	Improved	100
925	Mod. Adv. Tuberc.	Unimproved	20
926	Incipient Tuberc.	Improved	115
927	Incipient Tuberc.	Arrested	123
929	Mod. Adv. Tuberc.	Improved	127
930	Mod. Adv. Tuberc.	Improved	23
931	Mod. Adv. Tuberc.	Arrested	112
933	Mod. Adv. Tuberc.	Arrested	79
935	Incipient Tuberc.	Improved	67
938	Mod. Adv. Tuberc.	Improved	9
940	Incipient Tuberc.	Improved	11
942	Incipient Tuberc.	Improved	60
951	Incipient Tuberc.	Improved	33
956	Incipient Tuberc.	Arrested	30
958	Incipient Tuberc.	Arrested	36
* 940	Incipient Tuberc.	Improved	12

* Reinstated.

TABLE III.

PATIENTS ADMITTED IN 1913: REMAINING IN INSTITUTION JANUARY 1, 1914.

No. of Patient	Diagnosis	No. of Days Treated in 1913
885	Mod. Adv. Tuberculosis	218
912	Mod. Adv. Tuberculosis	175
918	Mod. Adv. Tuberculosis	162
919	Incipient Tuberculosis	160
921	Mod. Adv. Tuberculosis	147
924	Incipient Tuberculosis	147
928	Incipient Tuberculosis	138
932	Incipient Tuberculosis	99
934	Incipient Tuberculosis	97
936	Incipient Tuberculosis	96
937	Mod. Adv. Tuberculosis	95
939	Incipient Tuberculosis	90
941	Incipient Tuberculosis	90
943	Mod. Adv. Tuberculosis	74
944	Incipient Tuberculosis	70
945	Mod. Adv. Tuberculosis	65
946	Incipient Tuberculosis	73
947	Incipient Tuberculosis	55
948	Mod. Adv. Tuberculosis	54
949	Mod. Adv. Tuberculosis	53
950	Incipient Tuberculosis	51
952	Incipient Tuberculosis	46
953	Incipient Tuberculosis	44
954	Mod. Adv. Tuberculosis	41
955	Incipient Tuberculosis	40
957	Mod. Adv. Tuberculosis	37
959	Incipient Tuberculosis	32
960	Mod. Adv. Tuberculosis	32
961	Mod. Adv. Tuberculosis	27
962	Mod. Adv. Tuberculosis	21
963	Mod. Adv. Tuberculosis	19
964	Incipient Tuberculosis	19
965	Mod. Adv. Tuberculosis	18
966	Incipient Tuberculosis	14
967	Incipient Tuberculosis	13
968	Mod. Adv. Tuberculosis	11
969	Advanced Tuberculosis	11
970	Advanced Tuberculosis	5
971	Incipient Tuberculosis	2
972	Incipient Tuberculosis	2
973	Mod. Adv. Tuberculosis	2

Respectfully submitted,

JOHN L. MEEKER, M. D.,

Medical Director.

ANNUAL REPORT

OF THE

Superintendent of the Newark

City Sanatorium for Tuberculosis

ANNUAL REPORT

Superintendent of the Newark

City Sanatorium for Tuberculosis

To Mr. David D. Chandler, Health Officer:

DEAR SIR:—I herewith respectfully submit to you my report of the administration of the Newark City Tuberculosis Sanatorium for the year 1913.

Total number of patients treated..... 229

SALARIES.

Medical Director	$ 1,524.00
Superintendent and Head Nurse	1,200.00
Nurses (2)	1,320.00
Clerk	720.00
Engineer	1,000.00
Cook	480.00
Assistant Cook	287.50
Kitchen Helper	216.00
Maids (4)	677.44
Waitresses (2)	432.00
Laundresses (3)	780.00
Orderlies (2)	600.00
Stableman	420.00
Helper	360.00
	$ 10,016.94

LIGHT, HEAT, POWER AND WATER.

Electric Light	$ 913.34	
Coal	1,345.59	
Wood	43.75	
Electric Power	111.30	
Water	742.90	
		$ 3,156.88

DRUGS, ETC.

Drugs	$ 237.21	
Gauze	660.00	
Thermometers	84.00	
Sputum Cups	208.50	
		$ 1,189.71

FOOD SUPPLIES.

Butter	$ 900.49	
Eggs	3,749.25	
Milk	2,386.55	
Sea Food	115.80	
Groceries, Canned Goods, etc	2,275.77	
Vegetables	667.06	
Meats	4,192.67	
Bread, Cake, etc	748.47	
Ice	539.01	
Mineral Water	12.85	
		$ 15,587.92

FURNITURE AND FIXTURES.

Rugs	$ 7.65	
Scrap Baskets	3.78	
Alcohol Stove	6.97	
Carpet Beater	.45	
Sewing Machine	14.63	
China Closet	16.20	
Buffet	19.35	
Awnings	61.50	
Sweeper	2.48	
Chairs	29.70	
Refrigerator	6.28	
		$ 168.99

IMPROVEMENTS AND REPAIRS.

Glass	$ 8.27	
Hardware	214.71	
Plumbing	20.50	
Cleaning Cesspool	50.00	
Electrical Supplies	9.24	
Setting Clothes Poles	4.00	
Paints and Oils	78.77	
Painting Kitchen	9.00	
Repairing Boiler	193.77	
Repairing Range	16.10	
Lumber	12.15	
Chair Seats	1.68	
Seeds	.90	
Carriage and Wagon Repairs	40.50	
	$	659.59

BEDS AND BEDDING.

Spreads	$ 42.00	
Sheets	90.86	
Springs	36.00	
Blankets	121.88	
Pillow Cases	13.76	
Mattresses	25.50	
	$	330.00

DRY GOODS.

Towels	$ 47.16	
Overalls	4.50	
Crash	6.00	
Wash-cloths	3.69	
Napkins	5.85	
Tape	.38	
Canvas	10.12	
Muslin	19.60	
	$	97.30

LAUNDRY SUPPLIES.

Soap Powder	$ 58.50	
Soap Chips	60.95	
Clothes Baskets	10.43	
Clothes Pins	1.20	
	$	131.08

JANITOR'S SUPPLIES.

Scrubbing Brushes	$ 10.90	
Dutch Cleanser	12.50	
Sweeping Compound	29.00	
Brooms	20.07	
"No-Dust"	11.57	
Brushes	8.55	
Ammonia	12.05	
	$	104.64

STABLE.

Horse Feed	$ 228.97	
Horse Shoeing	29.63	
Rubber Tires	28.00	
Repairing Harness	8.93	
Boots	4.50	
Medicine	.45	
	$	300.48

TABLE AND KITCHENWARE.

Crockery	$ 81.42	
Cutlery	11.70	
Pots, Pans, etc	54.83	
	$	147.95

MISCELLANEOUS SUPPLIES AND EXPENSES.

Freight and Express	$ 55.16	
Postage Stamps	32.50	
Carfares and Lunches	86.35	
Temporary Help	3.22	
Kerosene	30.11	
Telephone Service	157.90	
Stationery	53.57	

Newspapers	40.79	
Cleaning Windows	50.00	
Paper Napkins	41.50	
Gloves	1.00	
Toilet Paper	34.03	
Matches	2.95	
Repairing Clock	.25	
		$ 589.33
Total for Sanatorium		$ 32,480.81

In conclusion I wish to thank the members of the Board and the members of the Sanatorium Committee for their sincere co-operation, which enabled me to carry on the work of the institution, and to the employes for their willing assistance.

Very respectfully,

MISS EDITH RILEY,
Superintendent.

Newark Weather in the Year 1913

NEWARK WEATHER—1913

Mr. David D. Chandler, Health Officer, Newark, N. J.:

DEAR SIR:—I herewith submit the following weather report for the year 1913:

The New Year began with a beautiful mild day. On January 3rd and 4th heavy rain with snow accompaniment marked the first storms of 1913. January 12th ushered in the first cold wave of the year, with high winds and rain, snow and hail. A heavy fog, lasting all the night of January 30th, settled over the city. On January 31st spectacular lightning occurred during the storm. There were sixteen days of January on which it either rained or snowed; 3.74 inches of rain fell during January, while 1.75 inches of snow dropped. The highest January temperature, 62 degrees, occurred on January 31st; the lowest, 19 degrees, on January 9th.

February began bright, clear and cold. The storms of the month, though not very violent, were four of them snow bearing and three of them rain carrying. Lincoln's Birthday was a fine, clear, cold day. On February 18th a large lunar halo made its appearance. Washington's Birthday was dark, dreary and dull. Fog prevailed during the entire day. In the evening storm, hail, thunder and lightning made their appearance. The maximum February temperature was 62 degrees, February 21st; the minimum was 10 degrees on February 13th. Eighteen days of February were clear; 5.10 inches of snow fell, while 2.83 inches of rain dropped.

March came in "like a lamb" and "like a lamb" left us. Heavy fogs occurred on March 4th, 14th, 15th, 20th and 21st. Snow flurries came on March 6th and on St. Patrick's Day. Beautiful lunar halos were seen on March 17th, 19th and 21st. Good Friday, March 21st, was clear, cold and windy. Easter Sunday was cloudy and windy. The only day with high winds was March 28th, on which the velocity reached 35 miles per hour. The month closed with "drizzle" weather. There were fifteen days during which it rained. The high temperature for the month, 76 degrees, occurred on March 25th; the low, 3 degrees, on March 7th. The total rainfall, 5.72 inches, was above the normal for March.

April began with a moderate temperature. Snow flurries were observed on April 5th and 6th. That was the last snow seen until November. Fifteen stormy days were April's record, with a large total rainfall of 5.94 inches and a snowfall of .25 inches; 75 degrees on April 23rd was the high temperature mark; 31 degrees on April 2nd and 7th was the low temperature mark.

The month of May began with a series of clear warm days, not a drop of rain falling until May 15th. On ten of the remaining days of the month there came a series of rains, the total measurement of which was 3.63 inches. A slight fog covered the city on May 23rd from noon until 10 P. M. Memorial Day, May 30th, was a warm, clear day; 93 degrees on May 3rd was the maximum for May, while 42 degrees on May 10th was the minimum for the month.

June was balmy and pleasant. There were only three days on which it rained. For these three days the rainfall was 3.29 inches, the heaviest storm occurring on June 20th, when 2.25 inches of rain fell. Hail, thunder and lightning accompanied this storm; 1.20 inches of rain fell in the first five minutes of the storm. The electric energy of the storm

of June 7th did considerable damage. Twenty-three clear days were in June's record; 95 degrees on June 10th and 47 degrees on June 9th were the respective high and low temperature marks for the month.

July was a very hot part of the year with only ten showery days, the total rainfall of which netted 1.94 inches. This was not a normal fall. Every shower had a thunder and lightning accompaniment. There was no rain on St. Swithin's Day. July 4th was warm and clear. A heavy twenty-five mile per hour wind blew during the July 28th storm. The day was hazy until 2 P. M. July 29th was also a hazy day. The highest temperature of the month, 99.5 degrees, occurred on this day; 58 degrees was the low temperature for July. It was recorded on July 7th.

August 1st was a dull, dark day, on the afternoon of which a heavy thunder storm occurred. There were nine rainy days in August with the subnormal rainfall of 2.09 inches. Twenty clear days were the August record. The highest temperature mark, 97 degrees, was reached on August 10th; 55 degrees, the low mark, on August 3rd and 22nd respectively.

September 1st, 2nd and 3rd were clear and warm. Four days of storm and showers followed. The general temperature conditions were agreeable. The nights of September 14th and 15th had light frosts. A lunar halo occurred on September 13th. Half of September's quota of days were clear. Eleven of the remaining days had rain storms. The total rainfall was 4.79 inches. The maximum temperature for September was 87 degrees on September 4th. The minimum temperature was 44 degrees on September 15th.

October 1st made a record for itself by having the total of 5.99 inches of rainfall during its twenty-four hours. While Columbus Day, October 12th, was a fine, mild day,

the early morning was marked by a 35 to 40 mile per hour wind storm and rain. The storms of October 20th were both accompanied by 45 mile per hour winds. Hallow Eve, October 31st, was a fine, cool night. The record fall of 14.82 inches of rain distinguishes October, 1913, from other Octobers. Seventy-nine degrees on October 5th and 36 degrees on October 21st were the respective high and low temperatures.

Cool November opened with a clear day. Election Day, November 4th, was bright, cool and clear. A fog on November 7th preceded two rainy days. The first snow flurry of the year came on November 10th. Fogs occurred on November 21st and 22nd. A beautiful rainbow appeared after a wind and rain storm November 24th. A little hail and snow fell on the evening of November 27th, Thanksgiving Day. The day was generally cold, dark and dull. The total rainfall, 2.06 inches, was below normal. Seventy-two degrees on November 20th and 26 degrees on November 11th were the maximum and minimum temperatures for November.

December ushered in its roll of cold days with cold, cloudy weather. Lunar halos occurred on December 3rd, 11th and 12th. Snow flurries came with December 8th and 9th. The first snowfall of the winter occurred on December 10th. The first ice appeared on the Canal and meadows about December 19th. Christmas Day was cloudy, dark, rainy and cold. There were only eleven clear days in December. Fifty-eight degrees on December 3rd and 17 degrees on December 28th were the high and low temperatures reached. The December rainfall total was 4.59 inches.

WILLIAM WIENER,
Meteorologist.

TEMPERATURE CHART IN FAHRENHEIT DEGREES.

MONTH	Monthly Mean Temperature			Maximum Recorded		Minimum Recorded	
	1843 to 1892	1892 to 1913	1913	1892 to 1913	1913	1892 to 1913	1913
January	29	29.3	34.7	66	62	—10	19
February	31	27.6	30.0	67	62	— 9	10
March	38	39.0	42.7	83	76	5	*3
April	49	52.0	53.6	93	75	22	31
May	59	61.0	62.1	97	93	34	42
June	69	69.2	71.6	99	95	45	47
July	74	74.0	76.9	102	†99.5	49	58
August	72	72.8	73.8	97	97	50	55
September	65	65.8	65.2	98	87	34	44
October	53	54.0	57.8	89	79	27	36
November	43	43.2	47.6	74	72	15	26
December	33	32.0	35.2	62	58	—2	17

*Lowest temperature of the year, 3 degrees, March 7.
†Highest temperature of the year, 99.5 degrees, July 30.
Annual mean, 1843–1892, 53 degrees.
Annual mean, 1892-1913, 51.6 degrees.
Annual mean, 1913, 54 degrees.

CHARACTER OF THE DAYS OF 1913.

MONTH	Clear (Cloudless)	Partly Cloudy (Fair)	Cloudy (Sunless)	Days in which precipitation occurred	Average No. days precipitation occurred 1892–1913
January	10	9	12	16	11
February	18	3	7	9	11
March	10	9	12	17	13
April	12	10	8	15	14
May	16	9	6	10	11
June	23	5	2	3	10
July	19	5	7	11	11
August	20	7	4	9	11
September	15	6	9	11	8
October	15	7	9	13	7
November	16	6	8	8	10
December	11	9	11	8	10
Totals	185	85	95	130	131

MISCELLANEOUS INCIDENTS OF YEAR 1913.

MONTH	Barometer			Wind		Humidity and Sunshine	
	Highest	Lowest	Average	Average Direction	Velocity	Humidity Average	Per cent. Sunshine *
January	30.76	28.95	29.86	N. W.	30	79	44
February	30.57	29.77	30.17	W.	18	43.8	81.2
March	†30.90	29.66	30.28	S. E.	35	53.6	67
April	30.65	29.83	30.24	N. W.	16	61.1	59
May	30.50	29.88	30.19	S. W.	16	75.2	70
June	30.50	29.93	30.21	S. W.	18	72	83
July	30.28	29.83	30.06	S. W.	25	72	83
August	30.45	29.08	29.26	S. W.	20	62	73
September	30.66	30.01	30.18	N. W.	12	72	53
October	30.56	29.76	30.12	N. W.	45	63	83
November	30.60	‡29.45	30.14	N. W.	14	65	79
December	30.50	‡29.45	30.07	W.	20	57	73

Annual average for the barometer, 30.06 inches.

Prevailing direction of the wind, westerly.

*Percentage of sunshine, based upon estimates obtained from three observations daily. The bureau has no sunshine recorder.

†Highest barometer recorded for 1913, March 18.

‡Lowest barometer recorded for 1913, November 9 and December 26.

EXCESSIVELY COLD OR HOT DAYS.

Average number when temperature fell below freezing, 32 degrees Fahr.			Average number when temperature rose to 90 degrees or above.		
MONTH	1892 to 1913	1913	MONTH	1892 to 1913	1913
January	24	17	May	1	2
February	23	26	June	3	8
March	16	18	July	6	8
April	3	3	August	3	3
October	1	....	September	1	....
November	9	4	October	1	....
December	20	14			
Totals	97	82	Totals	15	21

PRECIPITATION (IN INCHES).

MONTH	Rain and Melted Snow			Total Snow Unmelted	
	Period 1892–13	Period 1843–92	Year 1913	Period 1892–13	Year 1913
January	3.33	3.65	3.74	9.95	2.00
February	3.70	3.60	2.83	2.71	5.10
March	3.93	3.81	5.72	6.09	.25
April	3.59	3.53	5.94	6.56	.25
May	3.85	3.97	3.63	.....	.....
June	3.59	3.57	3.29	.....	.....
July	4.20	4.28	1.94	.....	.....
August	5.01	5.07	2.09	.....	.....
September	3.78	3.75	4.79	.....	.....
October	3.47	3.58	14.82	2.40	.....
November	3.60	3.63	2.06	2.40	.....
December	3.73	3.63	4.59	5.63	.07
Totals	45.78	46.07	55.44	33.34	7.57

Note—One inch of melted snow averages one-tenth of an inch of rain.

U. S. Census Population, 1910	347,469
Estimated population, 1913	380,000
Total area of the City's square miles	23.40
Built up square miles	17
Meadow land, square miles	6.48
Length of River and Bay Front, miles	10½
Number of miles of granite block	69.532
" " " " trap block	11.023
" " " " telford pavement	25.538
" " " " cobble stone pavement	1.870
" " " " asphalt pavement	52.699
" " " " brick pavement	50.208
" " " " bitulithic pavement	25.884
" " " " wood block pavement	0.508
" " " " bituminous concrete	0.886
" " " " bituminous macadam	0.125
" " " " medina sandstone pavement	0.169
" " " " Warrenite pavement	0.099
Total length of paved streets, miles	238.541
Number of miles of unpaved streets	67.0
Length of Electric Railways, miles	156
Length of Steam Railways, miles	25½
Length of brick and concrete sewers, miles	79.33
Length of pipe sewers, miles	218.78
Length of private sewers, miles	35.615
Total length of sewers, miles	298.11
Total number of sewer basins	3,871
Length of water mains, miles	405
Average daily consumption of water, gallons	40.8
Capacity of water supplied per day, gallons	50,000.000
Number of buildings	60,281
Shade trees planted	8,376

PUBLIC PARKS.

Military, acres	6.45
Washington, acres	3.40
Lincoln, acres	4.37
Other Small Parks, acres	5.67

NEW PARKS.

Branch Brook, acres	280.62
Eastside, acres	12.69
Westside, acres	23.04
Riverbank	5.75
Weequahic, acres	315.08

In concluding my report I wish to express by sincere thanks to the members and employees for their active co-operation and assistance in carrying on the work of the year.

DAVID D. CHANDLER,
Health Officer.

ANNUAL REPORT

OF THE

Board of Street and Water Commissioners

OF THE

CITY OF NEWARK, NEW JERSEY

FOR THE YEAR ENDING DECEMBER 31, 1913

OFFICERS AND MEMBERS

PRESIDENT.....PATRICK R. RYAN, 120 Union St.

CITY COUNSEL.....JAMES R. NUGENT, 614 High St.

CLERK OF THE BOARD.....

SECRETARY TO PRESIDENT.....JOHN J. BERRY, 161 Elwood Ave.

ASST. CLERK OF BOARD...ALFRED L. SWAIN, 77 Weequahic Ave.

CHIEF ENGINEER.....MORRIS R. SHERRERD, 493 Elizabeth Ave.

DEPUTY CHIEF ENGINEER...JAMES C. HALLOCK, 51 Renner Ave.

SEC'Y TO CHIEF ENG'R..JOSEPH G. WOLBER, 33 Hazlewood Ave.

GENERAL SUPT. OF WORKS...CHAS. M. SHIPMAN, 382 Parker St.

ENGINEER, DEPT. OF WATER..GEO. SANZENBACHER, 42 Nairn Pl.

ENGINEER, DEPARTMENT OF STREETS AND HIGHWAYS.....WM. A. HOWELL, 684 Parker St.

ENGINEER, DEPARTMENT OF SEWERS AND DRAINAGE.....EDWARD S. RANKIN, 751 High St.

CHIEF ACCOUNTANT, DEPARTMENT OF WATER....DAVID HOLMES, 116 Shepard Ave.

COMMISSIONERS.	RESIDENCE.
CHARLES F. KRAEMER	269 Mt. Prospect Ave.
CHARLES P. GILLEN	124 Fairmount Ave.
PATRICK H. RYAN	120 Union St.
ALBERT H. BIERTUEMPFEL	35 Komorn St.
ARTHUR R. DENMAN	946 Broad St.

To the Honorable, the Mayor and Common Council of the City of Newark, N. J.:

Pursuant to law, the Board of Street and Water Commissioners of the City of Newark, N. J., hereby presents its annual report, showing the condition of the public works and property of the city under the government, control and management of said Board, for the fiscal year ended December 31, 1913.

ANNUAL REPORT

OF THE

Board of Street and Water Commissioners.

To the Board of Street and Water Commissioners of the City of Newark, N. J.:

GENTLEMEN—Herewith are transmitted detailed reports of the several departments under the control of your Board for the year ended December 31, 1913, which have been arranged for presentation to the Mayor and Common Council of the City in accordance with Section 20 of Chapter 134 of the State Laws of 1891.

Respectfully submitted,

MORRIS R. SHERRERD,
Chief Engineer.

ANNUAL REPORT

GENERAL SUPERINTENDENT OF WORKS.

ANNUAL REPORT

OF THE

General Superintendent of Works

NEWARK, N. J., December 31, 1914.

Mr. Morris R. Sherrerd, Chief Engineer, Board of Street and Water Commissioners, Newark, New Jersey:

DEAR SIR:—Herewith is submitted the Annual Report for the year 1913 of the operation and expenditures of the various departments under the supervision of the General Superintendent of Works.

In tabulated form are given condensed reports of the activities of the several departments, including a distribution of pay rolls and results accomplished.

Yours respectfully,

CHARLES M. SHIPMAN,
General Superintendent of Works.

DEPARTMENT OF STREETS AND HIGHWAYS

DISBURSEMENTS.

Street Cleaning.

	Bills and Claims	Weekly Payrolls	Monthly Payrolls	Total
January	.....	$14,173.54	$ 730.00	$14,903.54
February	$ 504.13	13,989.10	1,410.00	15,903.23
March	1,540.38	17,833.15	1,360.00	20,733.53
April	3,637.76	19,645.75	1,372.50	24,656.01
May	635.06	26,929.72	1,285.00	28,849.78
June	1,553.18	18,838.06	1,285.00	21,676.24
July	1,299.59	18,832.64	1,285.00	21,417.23
August	1,341.93	22,091.74	1,385.00	24,818.67
September	994.64	14,553.72	1,385.00	16,933.36
October	1,053.98	17,828.19	1,385.00	20,267.17
November	1,065.15	14,908.32	1,385.00	17,358.47
December	1,953.60	16,701.73	2,077.50	20,732.83
Totals	$15,579.40	$216,325.66	$16,345.00	$248,250.06

Street Repairs.

	Bills and Claims	Weekly Payrolls	Monthly Payrolls	Total
January	.....	$ 1,318.73	$ 208.50	$ 1,527.23
February	$ 689.88	848.41	467.00	2,005.29
March	168.28	1,481.87	517.00	2,167.15
April	798.82	2,773.91	517.00	4,089.73
May	1,387.42	5,140.90	517.00	7,045.32
June	3,273.05	2,885.42	517.00	6,675.47
July	1,427.92	3,232.56	408.93	5,069.41
August	1,228.87	3,612.88	317.00	5,158.75
September	867.66	1,699.34	317.00	2,884.00
October	715.81	1,910.14	317.00	2,942.95
November	941.55	1,594.04	317.00	2,852.59
December	1,256.59	1,720.95	475.50	3,453.04
Totals	$12,755.85	$28,219.15	$48,959.93	$45,870.93

City Stables.

	Bills and Claims	Weekly Payrolls	Monthly Payrolls	Total
January	.....	$ 1,195.07	$ 58.50	$ 1,253.57
February	$ 1,769.04	1,109.83	117.00	2,995.87
March	844.67	1,103.90	117.00	2,065.57
April	1,577.17	1,090.83	117.00	2,785.00
May	1,918.10	1,399.16	117.00	3,434.26
June	904.35	1,061.50	117.00	2,082.85
July	1,060.13	1,066.00	117.00	2,243.13
August	1,066.43	1,451.00	117.00	2,634.43
September	1,265.01	1,130.00	117.00	2,512.01
October	1,310.04	1,388.28	117.00	2,815.32
November	1,432.18	1,078.65	117.00	2,627.83
December	2,492.68	1,224.00	175.50	3,892.18
Totals	$15,639.80	$14,298.22	$1,404.00	$31,342.02

Miscellaneous.

	Bills and Claims	Weekly Payrolls	Monthly Payrolls	Total
January	.....	$ 333.16	$ 129.16	$ 462.32
February	$ 155.20	320.00	258.32	733.52
March	299.75	320.00	224.45	844.20
April	420.42	320.00	258.32	998.74
May	412.65	400.00	258.32	1,070.97
June	190.22	320.00	258.32	768.54
July	41.60	320.00	258.32	619.92
August	1,404.58	400.00	158.32	1,962.90
September	881.80	320.00	158.32	1,360.12
October	378.12	400.00	236.32	1,014.44
November	1,282.40	320.00	236.32	1,838.72
December	2,165.25	400.00	354.64	2,919.89
Total	$7,631.99	$4,173.16	$2,789.13	$14,594.28

STREETS AND HIGHWAYS

DISBURSEMENTS

Recapitulation.

	Bills and Claims	Weekly Payrolls	Monthly Payrolls	Total
January	.....	$ 17,020.50	$ 1,126.16	$ 18,146.66
February	$ 3,118.25	16,267.34	2,252.32	21,637.91
March	2,853.08	20,738.92	2,218.45	25,810.45
April	6,434.17	23,830.49	2,264.82	32,529.48
May	4,353.23	33,869.78	2,177.32	40,400.33
June	5,920.80	23,104.98	2,177.32	31,203.10
July	3,829.24	23,451.20	2,069.25	29,349.69
August	5,041.81	27,555.62	1,977.32	34,574.75
September	4,009.11	17,703.06	1,977.32	23,689.49
October	3,457.95	21,526.61	2,055.32	27,039.88
November	4,721.28	17,901.01	2,055.32	24,677.61
December	7,868.12	20,046.68	3,083.14	30,997.94
Totals	$51,607.04	$263,016.19	$25,434.06	$340,057.29

STREETS AND HIGHWAYS.

RECAPITULATION OF DISBURSEMENTS.

Street Cleaning	$248,250.06
Street Repairs	45,870.93
City Stables	31,342.02
Miscellaneous	14,594.28
Total	$340,057.29

CONDENSED REPORT OF STREETS CLEANED, ETC.

	Cubic Yards	Square Yards	Labor
Cleaning—			
Pavements by machine	22,769	82,929,113	$ 40,747.41
Block pavements by hand	45,507	155,760,206	67,057.85
Telford pavements by hand	2,964	14,372,949	3,643.91
Cobble pavements by hand	847	1,648,854	1,122.68
Asphalt pavements by hand	26,211	241,927,002	36,544.65
Brick pavements by hand	15,435	110,346,327	23,823.64
Wood pavements by hand	260	869,044	396.35
Bitulithic pavements by hand	9,005	67,642.765	13,621.83
Asphalt block pavements by hand	324	704,158	393.96
Flushing (19,909,600 galls)		18,211,414	3,532.58
Picking papers (20,293 bags)			2,542.55
Laborers on city dumps			5,243.27
Carpenter and helper making tool boxes, scrapers, general repairs			297.78
Removing obstructions			130.65
Removal of snow	3,199		2,485.97
Removing fallen trees			75.87
Painter, painting carts, acting as foreman, etc.			972.13
Miscellaneous, spreading sand, etc.			100.86
Engineer acting as foreman			385.00
Horse cleaning			631.42
Overhead charges			9,790.04
Totals	126,521	694,411,832	$213,640.40

STREET REPAIRS.

1913.	Labor
Dirt streets grades (382 loads)	$ 2,059.12
Cobble pavements repaired (447 square yards)	192.40
Block pavements repaired (25,291 square yards)	15,168.11
Brick pavements repaired (3,172 square yards)	2,489.65
Telford pavements repaired (479 square yards)	142.50
Wood pavements repaired (10 square yards)	7.44
Depressions in streets filled	133.92
Horse cleaning	43.90

Crosswalks relaid (3,447 lineal feet), 170 walks	1,455.66
Building walk, Fifteenth Avenue	31.22
Digging up and laying 10-inch pipe, Avenue B	30.09
Building wall, North Sixth Street	63.22
Building fence, Herbert Place	18.88
Digging post holes, stable yard, Campfield Place	23.44
Digging out curb, North Sixth Street	113.16
Repairing gutters, Lanark Avenue and Fabyan Place	16.24
Rolling down street over sewer, Riverside Avenue	93.24
Taking down fence, Rowland Street	3.92
Filling over sewer, Clifton Avenue	48.60
Placing 12-inch pipe in Clifton Street	5.88
Carpenter, making tool boxes, etc	30.00
Engineer of steam roller acting as foreman	44.92
Inspectors on conduits	2,496.00
Keeper of stone yard	833.25
Man placing lamps on depressions, etc	733.00
Painting street signs, posts and erecting traffic signs	313.89
Painting carts and wagons	109.18
Removing dirt from streets (117 loads)	367.21
Miscellaneous, filling in washouts, cutting weeds, etc	138.39
Cutting off northeast corner Military Park and Park Place	372.91

COST OF TELFORD REPAIRS AND OILING.

1913	Labor and Supervis'n	Stone	Coal	Oil and Laying	Total
Plum Point Lane	$ 122.54	$ 304.43			$ 426.97
Weston Avenue	60.02	110.70			170.72
Dayton Street	3.13	9.22			12.35
Clinton Place	162.96	281.35	$ 6.00		450.31
High Street	7.28	59.95			67.23
Ridge Street	29.09	4.61		$ 102.22	135.92
Orange Street	17.54	36.90			54.44
Sussex Avenue	479.23	793.40	24.00	907.32	2,203.95
Vroom Alley	3.08	9.22			12.30
Maple Avenue	11.79	36.90			48.69
Chancellor Avenue	19.07	59.96			79.03
Lincoln Avenue	38.03	106.08	6.00	251.08	401.19
Herbert Pl. & Riverside Av.	69.68	226.01	7.50	105.00	408.19
Elwood Place	4.21	9.23		17.63	31.07
Elwood Avenue	4.16	13.83		108.90	126.89
Arlington Avenue	26.80	46.12			72.92
Abington Avenue	241.95	73.80	6.00	138.98	460.73
Delavan Avenue	12.79	41.51	6.00	54.23	114.53
Treadwell Place	15.96	9.22			25.18
DeGraw Avenue	9.58	9.22		183.75	202.55
Clifton Avenue	21.91	13.83		40.12	75.86
North Fourteenth Street	6.19	9.23			15.42
Eaton Place	8.42	9.22			17.64
Heller Parkway				152.40	152.40
Grafton Avenue				73.50	73.50
Parker Street				44.70	44.70
Lake Street				127.88	127.88
Highland Avenue				183.75	183.75
Fabyan Place				225.50	225.50
South Orange Avenue				124.68	124.68
Mt. Prospect Avenue	5.17	4.61		22.01	31.79
Meeker Avenue				56.25	56.25
Oraton Street				41.25	41.25
Totals	$1,380.58	$2,278.55	$55.50	$2,961.15	$6,675.78

COST OF CITY STABLES.

(Including Harness Shop).

Department of Streets and Highways	$32,017.34
" " Sewers and Drainage	6,271.57
" " Cross Walks	195.64
" " Repairs to Asphalt Streets	710.26
" " Public Lighting	656.59
	$39,851.40

TOTAL RECEIPTS, DEPARTMENT OF STREETS AND HIGHWAYS—1913.

Inspectors, Public Service Electric Co	$1,248.00	
Inspectors, Public Service Railway Co	332.00	
Inspectors, New York Telephone Co	1,252.00	
Inspectors, Postal Telegraph-Cable Co	136.00	
Inspectors, Public Service Gas Co	12.00	
		$ 2,980.00
Street repairs		8,876.20
Street openings		4,413.50
Paving Bay Avenue Pumping Station yard		127.98
Use of city sprinkler		4.75
Carting lamp posts (Lighting Department)		10.20
Refund, salary of John Donegan		50.00
Sale of motorcycle		25.00
Laying crosswalks, Mt. Prospect Avenue		46.01
Laying crosswalks, Broad Street (D., L. & W. R. R.)		62.00
Use of city steam roller		225.00
Paving and grading River Street dock		1,955.52
Sale of asphalt scrapers		19.00
Sale of dead horse		4.00
Sale of old cart		15.00
Auction sale of confiscated goods		6.50
Unclaimed wages		36.00
Removal of street obstructions		130.00
Board of horses		70.83
Sale of empty barrels		2.50

Use of horse and carriage (Sidewalk Department)	400.00
Sale of horseshoe pads	279.48
Sale of iron	112.57
Sale of horseshoes and tips	16.75
Sale of stone	2,417.56
Fees for moving houses	80.00
Sale of manure	25.00
Total	$22,391.35

PERMITS ISSUED DURING 1913.

Public Service Railway Co., renewing special work, frogs, switches	70
Public Service Railway Co., replacing and renewing rails	67
Public Service Railway Co., renewing crossovers, shifting tracks	15
Public Service Gas Co., gas connections	4
Public Service Electric Co., opening manholes	15
Public Service Electric Co., house service connections	54
Public Service Electric Co., pole lateral services, etc	20
Contractors, for grading, curbing, flagging and sewers	105
New York Telephone Co., erecting poles, etc	195
Removing flagging for installing gasolene tanks	24
Roping off sidewalks for wrecking buildings	27
Driving across sidewalks	65
Erecting fences on sidewalks	15
Placing tar kettles on streets	9
For moving houses	3
Miscellaneous	37
Erecting sidewalk and overhead bridges	15
Healey Construction Co., for Passaic Valley Sewer	1
Frazer & Burchenal, for Passaic Valley Sewer	1
Newark District Telegraph Co., to open manholes and construction work	2
Postal Telegraph-Cable Co., to open manholes and construction work	6
	750

REPORT OF STREET OBSTRUCTION DEPARTMENT, 1913.

Number of Complaints inspected	1,048
Number of obstructions removed	40
Complaints made in Police Courts	23
Fines imposed in Police Courts	$167.00
Cost of removing obstructions from streets	$130.00

REPORT OF STREET OBSTRUCTION FUND.

December 31, 1913.

	Receipts	Refunded	Interest
January	$ 565.00	$ 855.00	$ 9.53
February	585.00	435.00	7.56
March	1,705.00	685.00	7.40
April	1,480.00	1,410.00	17.26
May	1,435.00	1,275.00	9.21
June	1,440.00	1,165.00	9.53
July	1,050.00	1,400.00	9.86
August	1,525.00	930.00	9.53
September	1,455.00	1,545.00	10.19
October	975.00	1,310.00	9.37
November	610.00	1,335.00	7.40
December	555.00	1,250.00	8.55
Totals	$13,380.00	$13,595.00	$115.39

RECEIPTS.

Balance in bank, December 31, 1912	$ 4,710.26
Deposited in bank (Receipts 1,072 permits)	13,380.00
Fines collected	130.00
Interest	115.39
Total	$18,335.65

DISBURSEMENTS.

Vouchers refunded	$13,595.00
Fines paid to Comptroller	130.00
Balance in bank December 31, 1913	4,610.65
	$18,335.65

DEPARTMENT OF STREETS AND HIGHWAYS.

RECEIPTS AND APPROPRIATIONS.

Appropriation by Common Council	$318,000,000	
Receipts	22,391.35	
		$340,391.35
Disbursements	$340,057.29	
Transferred to Contingent Account	334.06	
		$340,391.35

City Trolley Inspector

Mr. Charles M. Shipman,

General Superintendent of Works.

Dear Sir:—The year 1913 will long be remembered as the one in which the greatest number of trolley franchises ever granted in the history of the city were passed upon by the Board of Works as a means of relieving the intolerable congested conditions that exist because of the heavy traffic.

Trolley history was made; history that will be remembered for many years to come as the influence of the work of the board is felt throughout our hustling municipality and its suburbs.

The enactment of the so-called half-mile extension law, giving the Board the right to order an extension of the trolley tracks when in its judgment it is necessary, has opened the door for rapid improvement in the local service, and should advantage be taken of it so that necessary connections can be made, the cause for a great many complaints will be removed.

Principal among the achievements of the Board in this matter was the installation of the new Summer line, with its terminal at the city line on Bloomfield avenue, which has given the people of that section of the city an opportunity to ride to and from their homes in comfort.

The granting of the extension of the line on Bergen street was also greatly appreciated by the people of the southwestern section of the city, and the work of installing

the tracks from Hawthorne avenue to Renner avenue was immediately begun, giving service to the people before the winter set in. This line now gives those people direct connections with the business portion of the city, and when completed will make a connection at Elizabeth avenue and Lyons avenue, but there should be an extension west on Lyons avenue to complete the work in that section.

The trolley operation throughout the city has been severely handicapped by the Passaic Valley sewer; the engineers having erected their operating plants in such a manner as to block such an important line as South Orange and the placing of the pumping station on the tracks of Ogden street has prevented the installation of the tracks on Fourth avenue, and that means the holding up of the Hawthorne line, a most important matter.

Heavy trucking also proves a handicap, and your inspector would recommend an ordinance compelling the teamsters who haul iron girders and material of considerable length to first obtain a permit, so that arrangements can be made for taking care of the trolley service.

Considerable delay to the intercity service by the repairs and building of bridges, causing the people a loss of time and money, is a matter that should be taken up immediately. People complain of this, and the business people especially are affected, as there is always a tendency on the part of the public to avoid such blockades, even to the extent of taking their trade elsewhere. In Chicago this trouble is avoided by the construction of tunnels for trolley traffic, and the advantage in rapid transit is remarkable.

Many miles of tracks were relaid during the year, and the grinders of the traction company were kept busy grinding down the joints and removing the corrugation from the tracks. As this work can only be done during the early morning hours, because of the interference of traffic, it naturally becomes slow work.

Two thousand three hundreds cars were inspected during the year; the inspection relating to brakes, wheels, gears, fenders, heat, ventilation, signs and sanitary conditions.

Flat wheels removed	418
Defective fenders	135
Cars removed for noisy gears	50
Cars removed for mechanical defects	30
Cars in service, 1912	840
Cars in service, 1913	852
Increase in cars	12

Respectfully submitted,

JOSEPH CRAWFORD,
Trolley Inspector.

DEPARTMENT OF SEWERS AND DRAINAGE

CLEANING AND REPAIRS.

DISBURSEMENTS.

	Bills and Claims	Weekly Payrolls	Monthly Payrolls	Total
January	.....	$ 1,722.08	$ 423.75	$ 2,145.83
February	$1,116.56	2,041.65	834.92	3,993.13
March	338.13	1,928.92	847.50	3,114.55
April	587,46	2,435.68	847.50	3,870.64
May	862.58	3,342.76	843.30	5,048.64
June	211.71	2,677.54	828.62	3,717.87
July	1,235.42	2,540.14	847.50	4,623.06
August	607.81	3,743.84	847.50	5,199.15
September	1,336.90	2,675.06	847.50	4,859.46
October	724.34	2,030.16	847.50	3,602.00
November	754.85	378.49	604.06	1,737.40
December	1,320.21	338.26	671.25	2,329.72
Totals	$9,095.97	$25,854.58	$9,290.90	$44,241.45

Included in the above payment of bills are $2,000.00, the city's proportion of the Point Outlet Sewer.

DISBURSEMENTS.

NORTH SIXTH STREET AND BAY AVENUE PUMPING STATION.

	Bills and Claims	Weekly Payrolls	Monthly Payrolls	Total
January	.....	$ 367.21	$ 283.14	$ 650.35
February	$ 770.03	257.50	578.38	1,605.91
March	258.03	388.84	565.96	1,212.83
April	281.36	290.00	565.96	1,137.32
May	561.96	366.95	565.96	1,494.87
June	901.69	206.96	582.74	1,691.39
July	458.16	332.12	565.96	1,356.24
August	725.16	247.50	565.96	1,538.62
September	582.33	198.00	565.96	1,346.29
October	1,287.05	342.54	565.96	2,195.55
November	516.90	234.00	565.96	1,316.36
December	463.13	247.50	849.42	1,560.05
Totals	$6,805.80	$3,479.12	$6,821.36	$17,106.28

In the disbursements of the Bay Avenue Pumping Station the following items are included:

Repairing hoisting bucket	$ 8.80
Repairing main steam pipe	229.77
Repairing pump	954.16
Repairing roof, floors, etc., carpenter work	369.27
Installing exhaust pipe and relaying gutters Bay Avenue Pumping Station and cage house	530.10
Repairs to engine	103.14
Repairs to slate roof	670.30
	$2,865.54

DISBURSEMENTS.

CITY STABLES.

	Bills and Claims	Weekly Payrolls	Monthly Payrolls	Total
January	.....	$ 178.08	.....	$ 178.08
February	$ 404.36	215.84	.....	620.20
March	347.00	217.84	.....	564.84
April	245.83	180.32	.....	426.15
May	325.28	215.50	$4.20	544.98
June	359.00	174.72	2.10	535.82
July	380.30	175.84	.....	556.14
August	330.44	248.36	.....	578.80
September	407.64	183.40	.....	591.04
October	359.21	228.48	.....	587.69
November	204.07	168.00	.....	372.07
December	505.76	210.00	.....	715.76
Totals	$3,868.89	$2,396.38	$6.30	$6,271.57

DISBURSEMENTS.

RECAPITULATION.

	Bills and Claims	Weekly Payrolls	Monthly Payrolls	Total
January	.....	$ 2,267.37	$ 706.89	$ 2,974.26
February	$ 2,290.95	2,514.99	1,413.30	6,219.24
March	943.16	2,535.60	1,413.46	4,892.22
April	1,114.65	2,906.00	1,413.46	5,434.11
May	1,749.82	3,925.21	1,413.46	7,088.49
June	1,472.40	3,059.22	1,413.46	5,945.08
July	2,073.88	3,048.10	1,413.46	6,535.44
August	1,663.41	4,239.70	1,413.46	7,316.57
September	2,326.87	3,056.46	1,413.46	6,796.79
October	2,370.60	2,601.18	1,413.46	6,385.24
November	1,475.82	780.49	1,170.02	3,426.33
December	2,289.10	795.76	1,520.67	4,605.53
	$19,770.66	$31,730.08	$16,118.56	$67,619.30

REPORT OF SEWERS AND DRAINAGE.

1913.

			Labor
Basins cleaned	5,097	9,243	$10,337.74
Sewers cleaned (262,240 feet)		1,733	7,986.82
Chambers cleaned, pumping station		2,747	640.94
Repairs, carting ashes, building drain and wall, Bay Avenue	$ 45.31		
Labor, North Sixth Street	127.57		
			172.88
Basins repaired (54)			82.80
Detailmen, examining sewers and basins			719.60
Ditches cleaned (65 loads)			712.04
Ditches repaired			3.92
Sumps cleaned (466 loads)			690.90
Cleaning horses			116.48
Repairs to manholes			36.68
Building manholes			13.72
Building basins			177.80
Help at Camfield Place stable			2,283.92
Painting and working at dredger			201.64
Dredging Tenth Ward Ditch			338.56

Leveling bank, Wheeler Creek and Peddie Ditch	45.64
Moving dredger	52.00
Dredging Peddie Ditch	132.84
Men leveling City Dumps	480.00
Examining brick sewers for repairs	99.96
Cleaning flushing tanks	25.20
Repairing and cleaning basin connections (39)	42.56
Repairing, relaying and cleaning basin chutes	102.02
Painting carts	12.32
Dredging Wheeler Creek Ditch	389.40
Digging up and cleaning Belmont Avenue pipe sewer	29.68
Miscellaneous	27.39
Repairing 65 holes in miscellaneous sewers	124.30

RECEIPTS, DEPARTMENT OF SEWERS AND DRAINAGE.

1913.

Shifting, changing and repairing basin connections	$ 171.68
Shifting track drain	20.00
Sale of old pipe	3.00
Services of mason	171.28
Relaying pipe sewer	10.48
Sale of old iron	5.00
Building basin	67.05
Building manholes	14.85
Sale of manhole covers	3.00
Repairing sewer basin and sidewalk, Mt. Prospect Ave.	63.56
Repairing Court St. sewer and building basin	12.20
Repairing manhole and shifting basin connections	26.57
Board of Trolley Inspector's horse	275.00
Shifting manhole	45.80
Sewer taps	18,365.00
Plumbers' licenses	586.00
Total	$19,840.47

DEPARTMENT OF SEWERS AND DRAINAGE.

RECEIPTS AND DISBURSEMENTS.

Appropriation by Common Council	$47,500.00	
From Contingent Account	1,000.00	
Receipts	19,840.47	
		$68,340.47
Disbursements	$67,619.30	
Transferred to Contingent Account	721.17	
		$68,340.47

Department of Repairs to Asphalt Streets.

DISBURSEMENTS.

1913	Asphalt Repairs, Resurfacing and Maintenance	Bills and Claims	City Stables	Weekly Payrolls	Monthly Payrolls	Total
January	.....	.....	.....	$ 188.10	.....	$ 188.10
February	$16,170.87	$ 8.00	$113.50	243.54	$ 100.00	16,635.91
March	.....	142.25	7.50	289.90	100.00	539.65
April	1,963.12	165.51	6.90	333.00	100.00	2,568.53
May	3,320.36	142.31	11.70	526.54	100.00	4,100.91
June	.....	51.70	132.10	845.40	100.00	1,129.20
July	.....	1,772.53	7.80	720.78	100.00	2,601.11
August	.....	162.43	128.00	854.12	100.00	1,244.55
September	.....	218.66	95.46	699.68	100.00	1,113.80
October	17,611.15	103.93	.....	1,268.90	100.00	19,083.98
November	.....	9,344.83	75.50	2,351.56	100.00	11,871.89
December	.....	5,778.05	131.80	3,525.24	150.00	9,722.04
Totals	$39,202.45	$17,890.20	$710.26	$11,846.76	$1,150.00	$70,799.67

DEPARTMENT OF REPAIRS TO ASPHALT STREETS

Location of Work	Maintenance Sq. Yds.	Sewer and Water Cuts Square Yds.	Cuts paid for by other Depts. and private corporations	Total Sq. Yds.
Astor Street	188.53	.....	13.21	201.74
Avon Place	1.72	.....	5.13	6.85
Beaver Street	7.61	.....	11.96	19.57
Broome Street	12.88	.....	1.52	14.40
Bathgate Place	.....	.....	1.62	1.62
Brunswick Street	36.38	14.88	8.03	59.29
Broad Street	67.91	5.45	33.38	106.80
Bruce Street	436.83	.....	35.36	472.19
Barclay Street	4.89	.....	1.16	6.05
Bank Street	7.22	.....	198.76	205.98
Court Street	20.18	.....	31.15	51.33
Clifton Street	.....	10.35	1.37	11.72
Coes Place	.....	4.72	.....	4.72
Clayton Street	.....	.....	3.06	3.06
Camden Street	340.73	26.18	165.74	532.65
Camp Street	27.52	.....	.....	27.52
Chestnut Street	1.00	.....	19.56	20.56
Clinton Avenue	555.61	.....	38.67	594.28
Clinton Street	42.78	7.78	155.53	206.09
Cedar Street	2.00	.....	.....	2.00
East Kinney Street	7.26	.....	9.45	16.71
Elm Street	45.78	.....	13.09	58.87
East Park Street	25.07	.....	.....	25.07
Elizabeth Avenue	26.44	.....	.....	26.44
Fulton Street	108.51	.....	.....	108.51
Fairmount Avenue	10.61	24.64	3.70	38.95
Fifth Street	463.39	.....	102.04	565.43
Fourth Street	102.66	.....	17.34	120.00

Location of Work	Maintenance Sq. Yds.	Sewer and Water Cuts Square Yds.	Cuts paid for by other Depts. and private corporations	Total Sq. Yds.
Franklin Street	.....	.....	3.31	3.31
Fourth Avenue	204.00	.....	.....	204.00
Green Street	15.58	6.11	19.49	41.18
Gillette Place	.....	.....	1.37	1.37
Hillside Place	1.08	7.26	.....	8.34
Howard Street	.....	.....	39.04	39.04
Humboldt Street	2.37	.....	.....	2.37
Hecker Street	1.06	.....	18.73	19.79
Hunterdon Street	11.96	47.74	9.68	69.38
Halsey Street	81.70	19.68	226.95	328.33
Littleton Avenue	13.50	42.49	18.41	74.40
Linden Street	2.55	.....	.....	2.55
Lincoln Park	35.45	.....	2.27	37.72
Milford Avenue	.....	17.96	20.25	38.21
Murray Street	410.37	8.99	6.75	426.11
Mt. Prospect Avenue	.....	.....	64.67	64.67
Miller Street	14.39	9.07	9.14	32.60
Marshall Street	8.02	.....	1.34	9.36
Morton Street	3.72	10.17	19.30	33.19
Morris Avenue	34.56	9.56	107.41	151.53
Norfolk St. Canal Bridge	4.32	.....	26.76	31.08
Newton Street	680.62	.....	17.49	698.11
North Canal Street	137.40	2.90	19.89	160.19
North Sixth Street	531.47	8.00	6.80	546.27
New Street	.....	.....	7.29	7.29
North Seventh Street	1,793.71	9.93	6.93	1,810.57
Nutria Street	.....	3.04	.....	3.04
North Ninth Street	121.19	.....	.....	121.19
Nesbitt Street Bridge	.....	.....	29.91	29.91
Orchard Street	108.52	.....	24.25	132.77
Pennington Street	20.18	.....	4.87	25.05
Pennsylvania Avenue	515.70	.....	226.10	741.80
Park Place	353.67	.....	12.04	365.71
Prince Street	24.66	17.17	40.33	82.16
Rose Street	7.13	5.48	4.63	17.24
Ridgewood Avenue	9.02	.....	.....	9.02

Location of Work	Maintenance Sq. Yds.	Sewer and Water Cuts Square Yds.	Cuts paid for by other Depts. and private corporations	Total Sq. Yds.
South Street	38.88	10.43	10.53	59.84
Sherman Avenue	131.16	4.53	7.63	143.32
Seventh Avenue	8.15	.....	11.07	19.22
South Sixth Street	30.45	3.50	18.98	52.93
South Eighth Street	5.96	2.97	4.56	13.49
Sixth Avenue	777.05	.....	.....	777.05
Stratford Place	9.09	19.16	.....	28.25
South Seventh Street	16.16	12.48	17.01	45.65
Second Street	40.12	5.50	10.25	55.87
South Ninth Street	195.77	11.59	20.66	228.02
South Eleventh Street	16.06	22.23	10.71	49.00
South Twelfth Street	.....	5.83	1.83	7.66
Stone Street	2.40	.....	7.50	9.90
South Tenth Street	30.37	15.21	11.97	57.55
Seymour Avenue	.....	.....	865.72	865.72
Tichenor Street	18.24	.....	11.42	29.66
Thomas Street	38.80	6.97	25.44	71.21
Third Street	3.71	7.06	15.96	26.73
Washington Street	87.29	.....	120.96	208.25
Washington Place	4.78	.....	33.34	38.12
Wright Street	164.33	.....	.....	164.33
William Street	12.05	.....	1.89	13.94
Walnut Street	20.08	.....	76.96	97.04
Warren Street	1.74	.....	7.29	9.03
Warren Place	.....	.....	2.70	2.70
Wallace Street	37.40	.....	.....	37.40
Totals	9,381.51	447.01	3,160.61	12,989.13

RECAPITULATION.

Maintennace	9,381.51
Cuts, Sewer and Water	447.01
Cuts paid for by other departments and private corporations	3,160.61
Total	12,989.13

REPAIR OF ASPHALT STREETS AND RESURFACING

1913.

BY CONTRACT.

Location of Work	Repaving Sq. Yds.	Resurfacing Sq. Yds.	Concrete Cu. Yds.
Broad Street	517	.....	2.90
Harvey Street	.....	2,037.0	.....
Stone Street	182	.....	.....
Gouverneur Street	66	.....	.....
Crane Street	158	.....	.67
Wakeman Avenue	119	.....	.....
Washington Avenue	155	.....	4.87
Garside Street	624	1,702	5.59
Summer Avenue	972	430.0	13.71
Park Place	186	803.0	.....
Oriental Street	18	.....	.....
Jefferson Street	464	.....	1.35
Lafayette Street	806	.....	12.12
Elm Street	691	.....	.....
Elizabeth Avenue	92	.....	.....
Sherman Avenue	41	.....	.....
Beaver Street	12	.....	.....
Astor Street	50	.....	.....
North Canal Street	8	.....	.....
Barclay Street	25	.....	.....
Ridgewood Avenue	70	.....	.....
Prince Street	21	.....	.....
Newark Street Bridge	2	.....	.....
Lincoln Park	30	.....	.....
East Park Street	22	.....	.....
Clifton Avenue	283	.....	0.63
State Street	332	.....	.....
Halsey Street	890	.....	7.86

Location of Work	Repaving Sq. Yds.	Resurfacing Sq. Yds.	Concrete Cu. Yds.
New Street	161	.....	.51
Summit Street	234	.....	1.81
Washington Street	274	.....	6.34
Court Street	155	.....	.....
William Street	92	.....	2.87
Halleck Street	10	.....	.64
Nursery Street	37	.....	.....
Mt. Prospect Avenue	46	.....	.27
Grant Street	197	.....	.....
Cedar Street	12	.....	.....
Marshall Street	35	.....	1.88
Clinton Avenue	12	.....	.....
Washington Place	39	.....	.....
Burnet Street	84	.....	.....
Eagles Street	72	.....	.....
Nichols Street	41	.....	1.57
Jackson Street	68	.....	1.37
Monroe Street	9	.....	1.54
Waverly Avenue	347.44	831.44	3.95
Warren Street	194.06	.....	.....
Thirteenth Avenue	563.74	.....	.....
Sixth Avenue	388.43	.....	1.88
Bank Street	3.21	.....	.....
Montgomery Street	24.00	.....	.....
Hunterdon Street	17.66	.....	.....
James Street	196.00	.....	.....
	10,148.94	5,803.44	78.33

10,148.94 square yards asphalt repairing at $1.19	$12,077.24
5,803.44 square yards asphalt resurfacing at $1.15	6,673.96
78.33 cubic yards concrete at $5.00	391.65
Extra, 11 cubic yards binder at $6.00	66.00
38 hours of labor at 25c	9.50
One day foreman at $5.00	5.00
Amount of estimate	$19,223.35

REPAIRS TO ASPHALT STREETS.

SUMMARY

Payrolls and Supplies		$31,597.22
Asphalt repairs as per contract with Standard Bitulithic Co., balance from 1912 and paid in 1913	$16,170.87	
1913 and paid in 1913	19,223.35	
		35,394.22
Maintenance, Barber Asphalt Paving Co		2,781.88
Maintenance, Essex Asphalt Construction Co		1,026.35
		$70,799.67

RECEIPTS AND APPROPRIATIONS.

Appropriation by Common Council	$65,000.00	
Receipts	6,298.45	
		$71,298.45
Disbursements	$70,799.67	
Transferred to Contingent Account	498.78	
		$71,298.45

DEPARTMENT OF PUBLIC BATHS

DISBURSEMENTS.

	Bills and Claims	Weekly Payrolls	Total
January	.....	.....	.....
February	.....	.....	.....
March	$20.00	$3.50	$23.50
April	.....	.....	.....
May	.....	.....	.....
June	.....	.....	.....
July	.....	.....	.....
August	.....	.....	.....
September	.....	.....	.....
October	.....	.....	.....
November	.....	.....	.....
December	.....	.....	.....
	$20.00	$3.50	$23.50

Department has been transferred to Playground Commission.

DEPARTMENT OF PUBLIC BATHS.

RECEIPTS AND APPROPRIATIONS.

Receipts to April 1st		$162.00
Disbursements to April 1st	$23.50	
Transferred to Playground Commission	138.50	
		$162.00

DEPARTMENT OF SIDEWALKS

DISBURSEMENTS.

	Bills and Claims	Weekly Payrolls	Total
January	.....	$ 104.00	$ 104.00
February	$ 413.46	208.00	621.46
March	15.00	208.00	223.00
April	.....	208.00	208.00
May	426.40	208.00	634.40
June	376.20	208.00	584.20
July	11.70	208.00	219.70
August	.....	208.00	208.00
September	48.00	208.00	256.00
October	.....	208.00	208.00
November	811.66	208.00	1,019.66
December	1,163.23	162.00	1,325.23
	$3,265.65	$2,346.00	$5,611.65

Included in the above disbursements are payments amounting to $2,732.45, to Charles A. Carracino, contractor for the relaying, repairs and laying of new walks, which charges have been filed with the Comptroller as liens against the respective properties.

REPORT OF DEPARTMENT OF SIDEWALKS, 1913.

New flag walks laid by property owners	10,750	sq. ft.
New flag walks relaid by property owners	273,890	" "
Concrete walks laid by property owners	496,189	" "
New flag walks laid by City Contractor	11,066	" "
New concrete walks laid by City Contractor	3,751	" "
Walks relaid by City Contractor	9,425	" "
New 4-ft. walks laid by ordinance	1,740	" "
New 5-ft. walks laid by ordinance	27,850	" "
New 6-ft. walks laid by ordinance	79	" "
New 5-ft. concrete walks laid by ordinance	195,796	" "
Total square feet	1,030,536	

Curb reset by property owners	1,061	lin. ft.
Number of permits granted (25-ft. fronts)	3,521	
Number of streets inspected	32	
Number of complaints inspected	206	

RECEIPTS AND APPROPRIATIONS.

Balance from 1912	$1,008.20	
Appropriation by Common Council	2,000.00	
Receipts	3,737.01	
		$6,745.21
Disbursements	$5,611.65	
Balance to 1914	1,133.56	
		$6,745.21

SANITARY DEPARTMENT

DISBURSEMENTS.

	Joseph Marrone	Bills and Claims	Weekly Payrolls	Total
January	.....	.....	$ 160.04	$ 160.04
February	$ 31,580.96	$496.64	80.00	32,157.60
March	.....	160.22	80.00	240.22
April	13,090.48	32.26	80.00	13,202.74
May	15,790.48	256.54	100.00	16,147.02
June	15,790.48	.....	80.00	15,870.48
July	34,280.96	.....	80.00	34,360.96
August	15,790.48	.....	100.00	15,890.48
September	15,790.48	.....	80.00	15,870.48
October	15,790.48	.....	100.00	15,890.48
November	15,790.48	.....	80.00	15,870.48
December	15,790.47	.56	100.00	15,891.03
	$189,485.75	$946.22	$1,120.04	$191,552.01

*Contractor for the removal of ashes, garbage, paper and rubbish.

COLLECTIONS BY SANITARY DEPARTMENT

Year Ending December 31, 1913.

	Ashes Tons	Combustible Rubbish Tons	Garbage Tons	Total Tons
January (1)	24,446.62	24.0	*.....	24,470.62
February (1)	22,487.5	299.0	*.....	22,786.5
March (1)	22,466.16	325.5	313.5	23,105.16
April (1)	20,022.5	273.0	828.5	21,124.0
May (1)	19,799.5	288.5	906.5	20,994.5
June (1)	18,631.0	262.5	1,377.0	20,270.5
July (2)	12,695.0	2,662.5	6,281.5	21,639.0
August (3)	13,088.0	324.0	2,001.0	15,413.0
September (4)	13,978.5	353.5	2,060.0	16,392.0
October (5)	17,082.0	354.5	1,550.0	18,986.5
November (6)	20,034.0	323.0	911.5	21,268.5
December (7)	24,299.0	369.0	922.5	25,590.5
	229,029.78	5,859.0	17,152.0	252,070.78

*No separation of garbage was made in the months of January and February.

(Note) *Ashes* figured at 950 lbs. per cubic yard for January, February and March, and 900 lbs. per cubic yard for April, May and June.

(1) *Paper* figured at 200 lbs. per cubic yard.
Garbage figured at 1,050 lbs. per cubic yard, based on the average number of loads actually weighed.

(2) *Ashes* figured at 900 lbs. per cubic yard.
Paper figured at 200 lbs. per cubic yard.
Garbage figured at 1,089 lbs. per cubic yard, based on the average number of loads actually weighed.

(3) *Ashes* figured at 950 lbs. per cubic yard.
Paper figured at 212 lbs. per cubic yard.
Garbage figured at 1,050 lbs. per cubic yard.

(4) *Ashes* figured at 950 lbs. per cubic yard.
Garbage figured at 1,050 lbs. per cubic yard.
Paper figured at 200 lbs. per cubic yard.

(5) *Ashes* figured at 950 lbs. per cubic yard.
Garbage figured at 1,028 lbs. per cubic yard.
Paper figured at 200 lbs. per cubic yard.

(6) *Ashes* figured at 950 lbs. per cubic yard.
Garbage figured at 1,028 lbs. per cubic yard.
Paper figured at 200 lbs. per cubic yard.

(7) *Ashes* figured at 950 lbs. per cubic yard.
Garbage figured at 1,028 lbs. per cubic yard.
Paper figured at 200 lbs. per cubic yard, based on average number of loads actually weighed.

SANITARY DEPARTMENT

RECEIPTS AND APPROPRIATIONS.

Appropriation by Common Council		$191,500.00
From Contingent Account	52.01	
		$191,552.01
Disbursements		$191,552.01

DEPARTMENT OF CROSS WALKS

DISBURSEMENTS.

	Bills and Claims	City Stables	Weekly Payrolls	Total
January	.....	.....	$ 15.20	$ 15.20
February	.....	9.25	113.08	122.33
March	.....	107.70	196.84	304.54
April	$19.95	8.50	240.08	268.53
May	1.50	66.07	285.28	352.85
June	.....	.....	45.44	45.44
July	.....	.....	.....	.....
August	.....	.....	.....	.....
September	.....	.....	.....	.....
October	.....	.....	.....	.....
November	.....	.....	.....	.....
December	.....	.....	.....	.....
	$21.45	$191.52	$895.92	$1,108.89

Subsequent to June this department was merged in Department of Streets and Highways.

CROSS WALKS

1913	WALKS RELAID			NEW WALKS			Filling Depressions	Horse Cleaning	Total Weekly Payrolls
	No. of Walks	Lineal Feet	Labor	No. of Walks	Lineal Feet	Labor			
January	2	50	$ 11.84	....	.....	.....	$ 3.36	.....	$ 15.20
February	8	153	63.28	3	121	$ 49.80	.....	.....	113.08
March	17	346	187.68	....	.....	.....	5.60	$3.56	196.84
April	32	688	233.08	....	.....	.....	7.00	.....	240.08
May	26	325	214.36	7	213	68.12	2.80	.....	285.28
June	1	28	24.52	1	58	17.84	2.52	.56	45.44
	* 86	1,590	$ 734.76	11	392	$135.76	$21.28	$4.12	$ 895.92
	†170	3,447	1,455.66	....	.....	.....	.....	.....	1,455.66
Totals	256	5,037	$2,190.42	11	392	$135.76	$21.28	$4.12	$2,351.58

*Total crosswalk payroll.
†Total Streets and Highways payroll.
From July this department was merged in the Department of Streets and Highways.

DEPARTMENT OF CROSS WALKS.

RECEIPTS AND APPROPRIATIONS.

Appropriation by Common Council	$1,096.89	
Receipts	12.00	
		$1,108.89
Disbursements		$1,108.89

DEPARTMENT OF WHARVES

DISBURSEMENTS.	Bills and Claims	Total
January	.....	.....
February	.....	.....
March	.....	.....
April	.....	.....
May	.....	.....
June	.....	.....
July	.....	.....
August	.....	.....
September	.....	.....
October	..	.....
November	.....	.....
December	$2,035.52	$2,035.52
	$2,035.52	$2,035.52

Included in the above disbursements is the cost of grading and paving River Street Dock, amounting to $1,955.52, also the annual salary of the Wharfmaster of $80.00.

DEPARTMENT OF WHARVES

RECEIPTS AND APPROPRIATIONS.

Rents of City Dock	$720.00	
Wharfage fees for 1912	269.00	
Wharfage fees for 1913	167.00	
From Contingent Fund	879.52	
		$2,035.52
Disbursements		$2,035.52

DEPARTMENT OF BRIDGES.

DISBURSEMENTS.

	Bills and Claims	Weekly Payrolls	Total
January	.....	$ 94.08	$ 94.08
February	$7,074.11	180.27	7,254.38
March	1,004.66	29.12	1,033.78
April	2.20	19.57	21.77
May	.....	193.24	193.24
June	69.08	18.48	87.56
July	.....	3.12	3.12
August	.....	.....	.....
September	.....	21.40	21.40
October	219.10	76.48	295.58
November	.....	.....	.....
December	118.95	68.32	187.27
	$8,488.10	$704.08	$9,192.18

REPAIRS TO BRIDGES.

LOCATION	Labor	Wood Block	Sand	Hardware	Lumber	Iron Work	Cement	Services of Mason	Stone	Repairing Wall Water Dept.	Painting Fence	Total
Mulberry Street	$346.06	$321.40	$ 9.00	.....	.....	$6,900.00	.....	.....	.....	.....	.....	$7,576.46
Bloomfield Avenue	137.41	.....	15.68	$4.80	$ 76.24	115.48	$29.12	$93.00	$9.00	$435.07	.....	915.80
River Street	126.51	.....	.....	.....	227.08	.....	.....	.....	.....	.....	.....	403.59
Wheeler Point Road	.84	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.84
Halsey Street	40.62	.....	.....	4.65	107.60	.....	.....	.....	.....	.....	.....	152.87
Broad Street	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	$12.00	12.00
Washington Street	* 1.68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.68
Commercial Street	11.20	.....	.....	.....	22.00	.....	.....	.....	.....	.....	.....	33.20
Old Bloomfield Road	* 11.76	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11.76
Madison Street	14.00	.....	.....	.....	48.02	.....	.....	.....	.....	.....	.....	62.02
Lister Avenue and Lockwood Street	14.00	.....	.....	.....	5.76	.....	.....	.....	.....	.....	.....	19.76
Printing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.20
Totals	$704.08	$321.40	$24.68	$9.45	$536.70	$7,015.48	$29.12	$93.00	$9.00	$435.07	$12.00	$9,192.18

* Old material used.

DEPARTMENT OF BRIDGES.

RECEIPTS AND APPROPRIATIONS.

Appropriation by Common Council	$2,000.00	
From Contingent Account	6,900.00	
From Contingent Account	150.48	
Receipts	141.70	
		$9,192.18
Disbursements		$9,192.18

DEPARTMENT OF PUBLIC LIGHTING, 1913.

DISBURSEMENTS.

	Bills and Claims	City Stables	Monthly Payrolls	Total
January	.....	.....	$ 83.50	$ 83.50
February	$ 16,242.15	62.59	167.00	16,471.74
March	34,580.45	72.03	167.00	34,819.48
April	22,231.11	3.00	202.00	22,436.11
May	22,095.24	36.00	237.00	22,368.24
June	21,555.01	48.47	237.00	21,840.48
July	24,734.68	3.50	237.00	24,975.18
August	21,281.74	121.50	237.00	21,640.24
September	22,026.68	26.00	237.00	22,289.68
October	5,616.16	151.25	237.00	6,004.41
November	3,972.98	6.25	237.00	4,216.23
December	78,613.17	126.00	355.50	79,094.67
	$272,949.37	$656.59	$2,634.00	$276,239.96

DEPARTMENT OF PUBLIC LIGHTING

The streets and parks of this city are lighted by 2,893 electric arcs, 111 flaming arcs, 185 electric indandescents and 1,993 gas Welsbachs, a total of 5,182 lamps, and an increase for the year of 95 electric arcs, 23 gas Welsbachs, and a decrease of 50 flaming arcs and 12 electric incandescents.

All lamps burn all night and every night on a schedule of 4,000 hours.

ELECTRIC ARCS.

The electric arcs in use are the General Electric alternating current, series 7.5 amperes, 450 Watt lamps.

The Public Service Corporation of New Jersey owns and maintains all lamps, lines and other construction, the city paying for the light only.

Electric arcs in service December 31, 1912	2,798
Electric arcs installed during year	107
Electric arcs discontinued during year	12
Electric arcs in service December 31, 1913	2,893
Increase	95

Electric arcs are located as follows:

Streets and avenues	2,870
Military Park	8
Lincoln Park	2
Homestead Park	2
Clinton Park	1
Central Square Park	1
South Canal Street Playground	1
Waverly Avenue Playground	1
	2,893

286 electric arcs are fed from subways.

The contract for electric arcs is for one year from September 1, 1913.

The rate charged for electric arcs, as approved by the Public Utilities Commission, is as follows:

For the first 250 lamps	$80.00	per	lamp	per	year
From 251 to 750 lamps	$75.00	"	"	"	"
From 751 to 1,250 lamps	$70.00	"	"	"	"
From 1,251 to 1,750 lamps	$65.00	"	"	"	"
All in excess of 1,750 lamps	$60.00	"	"	"	"

and one-half (½) per cent. off on one year contract.

The net cost per lamp on January 1, 1914, was $66.59.

ELECTRIC ARC OUTAGES.

	Reported by Police Department		Reported by Public Service Electric Co. Station and Circuit Troubles	
	Hours	Min.	Hours	Min.
January	4,458	15	1,738	11
February	2,370	05	318	19
March	2,867	30	37	00
April	2,182	15	635	37
May	1,165	30	2,152	28
June	1,261	30	2,620	23
July	1,228	30	2,374	51
August	1,790	15	68	20
September	2,442	10	1,180	08
October	3,052	20	1,296	16
November	2,466	30	886	40
December	2,345	00	430	08
	27,629	50	11,738	21
			27,629	50
			39,368	11

Underground Extensions for public lighting made during 1913:

Washington Street	2,600	feet
South Twelfth Street	6,800	"
Plank Road	5,600	"
Total	15,000	"

FLAMING ARCS.

South Broad Street, from Market Street to Walnut Street, on January 1, 1913, had 35 double arc Scott lamps, placed approximately 100 feet apart on goose-neck wooden poles, 17 feet from the ground, and cost $300.00 per lamp per year.

During the year iron ornamental combination light and trolley poles were erected, approximately 100 feet apart, and on November 1st, 1913, 36 General Electric series flaming arcs were installed and all Scott lamps, trolley and light poles were removed.

North Broad Street, from Market Street to Central Avenue, on January 1, 1913, had 30 double arc Toerring lamps, placed approximately 100 feet apart on iron ornamental goose-neck poles, 25 feet from the ground, and cost $300.00 per lamp per year.

During the year iron ornamental combination light and trolley poles were erected, approximately 100 feet apart, and on November 1, 1913, 30 General Electric series flaming arcs were installed on the west side of Broad Street, from Market Street to Central Avenue, and on the east side from Market Street to Military Park. Fourteen more lamps will be installed along Military Park.

The General Electric series arc is a 7.5 ampere, 500 Watt lamp, hung 19 feet from the ground, and costs $120.00 per lamp per year. The Broad Street Business Men's Association pays $55.00 per lamp per year of the cost, with the exception of the three lamps in front of the City Hall, which are paid for entirely by the city.

Market Street, from Pierson's Alley to Alling Street, on January 1, 1913, had 56 pairs of Excello lamps on wooden goose-neck poles, approximately 125 feet apart, and 17 feet from the ground. During the year the number of Excello lamps was reduced to 22 pairs (44 lamps). Ornamental iron combination light and trolley poles are being erected, and all Excello lamps will be removed and replaced by 43 General Electric series arcs installed.

Flame arc lighting will be extended on the east side of Market Street, from Alling Street to N. J. R. R. Avenue, and on the west side from Pierson's Alley to High Street.

ELECTRIC INCANDESCENTS.

Electric incandescents, 25 C. P., in service Dec. 31, 1912		169
" " installed during year	4	
" " discontinued during year	16	
" " December 31, 1913		157
Decrease		12

Outages for year, 6,669 hours 36 minutes.

The rates charged for 25 C. P. incandescents are as follows:

50 lamps	$18.00 per lamp per year
51 to 100 lamps	16.65 " " " "
101 to 200 lamps	15.00 " " " "
Over 200 lamps	13.95 " " " "

½% off on one year contract.

The net cost for 25 C. P. lamps on January 1, 1914, was $16.40.

LOCATION OF 25 C. P. INCANDESCENTS.

Streets and alleys	132
Weston Avenue Bridge, P. R. R.	9
Gray Street Bridge, D., L. & W. R. R.	4
North Eleventh Street Bridge, D., L. & W. R. R.	4
North Thirteenth Street Bridge, D., L. & W. R. R.	4
Sheffield Street Bridge, D., L. & W. R. R.	3
N. J. R. R. Avenue and South Canal Street tunnel, P. R. R.	1
	157
Electric incandescents, 32 C. P., in service Dec. 31, 1912	24
" " " installed during year	4
" " " in service Dec. 31, 1913	28

LOCATION OF 32 C. P. INCANDESCENTS.

Washington Park, 13 pairs	26
Intersection Washington Park and Washington Place, traffic lamp	1
Intersection Broad and Harvey Streets, traffic lamp	1
	28

RATES CHARGED FOR 32 C. P. LAMPS.

50 lamps	$20.00	per	lamp	per	year
51 to 100 lamps	18.50	"	"	"	"
101 to 200 lamps	17.00	"	"	"	"
Over 200 lamps	15.50	"	"	"	"

½% off one year contract.

Net cost of 32 C. P. incandescents, January 1, 1914, $18.22.

GAS WELSBACHS.

Gas Welsbachs in service Dec. 31, 1912		1,970
" " installed during year	35	
" " discontinued	12	
" " in service Dec. 31, 1913		1,993
" " increase		23
Lamps reported out during year		490
Lamp posts erected during year		34
Lamp posts removed during year		33

Gas mains extended for public lighting, 1,701 feet.

The rates charged for gas Welsbachs are as follows:

50 lamps	$26.00	per	lamp	per	year
51 to 100 lamps	25.00	"	"	"	"
Over 100 lamps	24.00	"	"	"	"

Term of contract, 3 years; discount, 1½%. Contract will expire March 1, 1916.

Net cost per lamp per year, January 1, 1914, $23.74.

Three lamps are used for fire signals; one corner of Broad and Green Streets, one corner of Broad and Mechanic Streets, and one on the north side of Market Street, opposite Washington Street.

Public Service Electric Co. erects all lamp posts, makes all connections with gas mains, furnished the supply of gas, lamps, burners and mantels, lights and extinguishes the lamps, cleans the globes and keeps all lamps in repair.

The city furnished the lamp posts.

HEATING VALUE OF THE GAS.

British Thermal Units.

	Highest	Lowest	Average
January	623	592	607.76
February	620	594	609.3
March	641	600	617.0
April	635	611	622.81
May	636.5	604	620.96
June	648	601	614.5
July	623.5	602.5	610.8
August	636	610	622.75
September	626	596	608.47
October	630	590	610.48
November	617	587	602
December	613	586	604.4
For year	648	586	612.6

PRESSURE OF THE GAS.

Inches in a column of water.

	Maximum	Minimum	Average
January	3.10	2.40	2.75
February	3.10	2.50	2.80
March	3.10	2.50	2.80
April	3.10	2.60	2.85
May	3.20	2.00	2.90
June	3.70	2.40	3.05
July	3.40	2.40	2.90
August	3.70	2.50	3.10
September	3.40	2.50	2.95
October	3.60	2.50	3.05
November	3.50	2.50	3.00
December	3.70	2.60	3.15
For the year	3.70	2.00	2.94

Meters tested	4,306
Found incorrect	85

NUMBER OF LAMPS IN SERVICE AS PER ANNUAL REPORTS SINCE 1905.

YEAR	Electric Arcs	Flaming Arcs		Electric Incandescents	Open Flame	Gas Lamps Welsbachs	Fire Signals	Total	Increase
		Double	Single						
1905	2,154	.....	.....	170	2,131	.....	.....	4,455	65
1906	2,235	.....	.....	182	2,103	.....	.....	4,520	65
1907	2,402	.....	.....	179	2,031	2	3	4,613	93
1908	2,510	.....	.....	184	2,032	2	3	4,731	118
1909	2,527	121	.....	186	1,276	703	3	4,813	82
1910	2,609	124	.....	172	1,132	858	3	4,898	85
1911	2,728	66	112	174	.....	1,969	2	5,051	153
1912	2,798	65	96	193	.....	1,967	3	5,122	71
1913	2,893	.....	111	185	.....	1,990	3	5,182	60

Average cost per mile of street lighting, $908.68.

DEPARTMENT OF POLES AND WIRES

Three telegraph companies, two telephone companies, one street railway company, one electric light and power company, and two city departments are operating in the streets of this city.

The number of poles of the various companies and city departments located in the streets of this city is as follows: wooden poles, 15,035; iron poles, 4,992; a total of 20,227 poles, and a decrease for the year of 203 poles.

The total length of overhead cable of the various companies and the two city departments is 202 miles; underground cables, 460 miles; overhead wires and conductors, 12,254 miles; conductors in underground cables, 83,660 miles; conduits, 141 miles; single ducts, 858 miles, and 1,885 manholes.

PUBLIC SERVICE RAILWAY COMPANY.

Number of poles, December 31, 1912, wood	6
" " " December 31, 1912, iron	4,733
" " " erected during year, iron	219
" " " removed during year, iron	1
" " " replaced during year, iron	225
" " " December 31, 1913, wood	6
" " " December 31, 1913, iron	4,951

NUMBER OF MILES OF CABLE—AERIAL, DEC. 31, 1913.

1,000,000 C. M	3.9966
750,000 C. M	3.5178
500,000 C. M	82.8128
300,000 C. M	2.0745
211,600 C. M	28.6247
	121.0264

NUMBER OF MILES OF CABLE IN SUBWAYS, DEC. 31, 1913.

1,500,000 C. M	2.7177
1,000,000 C. M	31.0147
750,000 C. M	1.9878
500,000 C. M	7.3790

2/0 3 Conductor	18.3800
1,000,000 bare copper	9.7024
2,000,000 bare copper	1.5700
	72.7516

Number of miles of aerial wire, Dec. 31, 1913—

1/0 trolley wire and 2/0 trolley wire	105.222

Number of miles of conduits, Dec. 31, 1912	13.2660
" " " " single ducts, Dec. 31, 1912	172.8339
" " " " conduits, Dec. 31, 1913	13.6271
" " " " single ducts, Dec. 31, 1913	185.0915
Number of manholes, Dec. 31, 1912	196
Number of manholes, Dec. 31, 1913	198

PUBLIC SERVICE ELECTRIC COMPANY.

Number of poles, Dec. 31, 1912, wood	8,135
" " " Dec. 31, 1912, iron	37
" " " erected during year, wood	637
" " " erected during year, iron	29
" " " removed during year, wood	522
" " " removed during year, iron	36
" " " replaced during year, wood	485
" " " property of P. S. E. Co	6,277
Half of 4,458 poles are jointly owned with foreign companies	2,229
Number of poles, Dec. 31, 1913, wood	8,506
" " " Dec. 31, 1913, iron	30
Number of miles of subway cable, Dec. 31, 1913	208.7
" " " " aerial conductors, Dec. 31, 1913	1,097.5
" " " " conductors in subways, Dec. 31, 1913	388.3
" " " " conduits, Dec. 31, 1912	16.2
" " " " single ducts, Dec. 31, 1912	237.5
" " " " conduits, Dec. 31, 1913	23.7
" " " " single ducts, Dec. 31, 1913	313.8
Number of manholes, Dec. 31, 1912, large	182
" " " Dec. 31, 1912, small	439
" " " Dec. 31, 1913, large	290
" " " Dec. 31, 1913, small	496

Five hundred New York Telephone poles became the joint property of both companies.

This company owns 4,458 poles jointly with the New York Telephone Co.

NEW YORK TELEPHONE COMPANY.

Number of poles, Dec. 31, 1912, wood	4,593
" " " Dec. 31, 1912, iron	1
" " " owned jointly with foreign companies, Dec. 31, 1912	998
" " " erected during year	463
" " " in which one-half ownership was acquired during year	1,570
" " " in which one-half ownership was extended during year	1,890
" " " removed during year	351
" " " replaced during year	246
" " " property of New York Tel. Co	2,815
Half of 4,458 poles, or 2,229 poles, are jointly owned by foreign companies.	
Number of poles, Dec. 31, 1913	5,044
Number of miles of aerial cable, Dec. 31, 1913	71
" " " " cable in subways, Dec. 31, 1913	129
" " " " conductors in aerial cable, Dec. 31, 1913	8,598
" " " " conductors in open wire and twisted pairs	1,939
" " " " conductors in subway cable	80,778
" " " " conduits, Dec. 31, 1913	92
" " " " single ducts, Dec. 31, 1913	413
Number of manholes, Dec. 31, 1913	782

NEWARK TELEPHONE CO.

Number of poles, Dec. 31, 1912, wood	444
" " " removed during year, wood	234
" " " replaced during year, wood	65
" " " Dec. 31, 1913, wood	210
Number of miles of subway cable, Dec. 31, 1913	8.35
" " " " conductors in subways Dec. 31, 1912	15.25
" " " " conduits, Dec. 31, 1912	9.40
" " " " single ducts, Dec. 31, 1912	26.70
" " " " conduits, Dec. 31, 1913	9.40
" " " " single ducts, Dec. 31, 1913	26.70
Number of manholes, Dec. 31, 1912	91
Number of manholes, Dec. 31, 1913	91

WESTERN UNION TELEGRAPH COMPANY.

Number of poles, Dec. 31, 1912, wood	539
" " " erected during year	44
" " " removed during year	37
" " " Dec. 31, 1913	546
Number of miles of aerial cable, Dec. 31, 1913	5.75
" " " " subway cable, Dec. 31, 1913	1.949
" " " " aerial conductors, Dec. 31, 1913	176
" " " " conductors in subways	182.82
" " " " conduits, Dec. 31, 1912	.749
" " " " conduits, Dec. 31, 1913	.749
" " " " single ducts, Dec. 31, 1912	6.839
" " " " single ducts, Dec. 31, 1913	6.839
Number of manholes, Dec. 31, 1913	1

POSTAL TELEGRAPH-CABLE CO.

Number of miles of aerial cable, Dec. 31, 1913	.0378
" " " " subway cable, Dec. 31, 1913	4.21
" " " " aerial conductors, Dec. 31, 1913	1.15
" " " " conductors in subways, Dec. 31, 1913	127.64
" " " " conduits, Dec. 31, 1912	.775
" " " " single ducts, Dec. 31, 1913	1.48
" " " " conduits, Dec. 31, 1913	2.15
" " " " single ducts, Dec. 31, 1913	6.92
Number of manholes, Dec. 31, 1912	12.
Number of manholes, Dec. 31, 1913	27.

This company uses 234 poles jointly with Public Service Electric Co.

NEWARK DISTRICT TELEGRAPH CO.

Number of poles, Dec. 31, 1912, wood	5
" " " Dec. 31, 1913, wood	5
Number of miles of subway cable, Dec. 31, 1913	3.5
" " " " conductors in subways, Dec. 31, 1913.	321.
" " " " aerial conductors	12.

Subways are rented from New York Telephone Co.

POLICE DEPARTMENT SIGNAL SERVICE.

(Maintained by New York Telephone Company.)

Number of poles, Dec. 31, 1912, wood	119
" " " erected during year	1
" " " Dec. 31, 1913	120
Number of miles of aerial cable, Dec. 31, 1913	.5
" " " " aerial conductors, Dec. 31, 1913	207.
" " " " subway cable, Dec. 31, 1913	11.340
" " " " conductors in subways, Dec. 31, 1913	111.

FIRE DEPARTMENT SIGNAL SERVICE.

Number of poles, Dec. 31, 1912, wood	619
" " " erected during year	1
" " " removed during year	22
" " " Dec. 31, 1913	598
Number of miles of subway cable, Dec. 31, 1913	20.26
" " " " conductors in subways, Dec. 31, 1913	196.77
" " " " aerial conductors, Dec. 31, 1913	219.00

DEPARTMENT OF POLES AND WIRES

RECAPITULATION	POLES										Cable, Miles		Conduits and Open Wires, Miles		Single Ducts Conduits, Miles		Single Ducts, Miles		Manholes	
	Wood		Iron		Erected		Removed		Replaced											
	Dec. 31, 1912	Dec. 31, 1913	Dec. 31, 1912	Dec. 31, 1913	Wood	Iron	Wood	Iron	Wood	Iron	Aerial	In Subways	Aerial	In Subways	Dec. 31, 1912	Dec. 31, 1913	Dec. 31, 1912	Dec. 31, 1913	Dec. 31, 1912	Dec. 31, 1913
Public Service Railway Co.	6	6	4,733	4,951	.....	219	.....	1	.....	225	21.0264	72.7516	105.222	.....	13.266	13.6271	172.8339	185.0915	196	198
Public Service Electric Co.	8,135	8,506	37	30	637	29	522	36	485	.....	.....	208.7	1,097.5	388.3	16.2	23.7	237.5	313.8	621	786
New York Telephone Co.	5,592	5,044	1	1	463	.....	351	.....	246	.....	71.	129.	10,537.	80,778.	92.	92.	413.	413.	782	782
Newark Telephone Co.	444	210	.....	.....	.....	.....	234	.....	65	.....	.....	8.35	.....	1,525.	9.40	9.40	26.70	26.70	91	91
Western Union Telegraph Co.	539	546	.....	.....	44	.....	37	.....	.....	.....	5.75	1.949	176.	182.82	.749	.749	6.839	6.839	.....	1
Postal Telegraph-Cable Co.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.0378	4.21	1.15	127.64	.775	2.15	1.48	6.92	12	27
Newark District Telegraph Co.	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.5	12.	321.	.....	.....	.....	.....	.....	.....
Police Department Call Service	119	120	.....	.....	1	.....	.....	.....	.....	.....	5.	11.340	207.	111.	.....	.....	.....	.....	.....	.....
Fire Department Signal Service	619	598	.....	.....	1	.....	22	.....	.....	.....	.....	20.26	219.	196.77	.....	.....	.....	.....	.....	.....
Totals	15,459	15,035	4,771	4,992	1,146	248	1,166	37	796	225	202.8142	460.0606	12,354.872	83,660.53	132.390	141.6261	858.3529	952.3505	1,702	1,885

DEPARTMENT OF PUBLIC LIGHTING.

RECEIPTS AND APPROPRIATIONS.

Appropriation by Common Council	$250,000.00	
From Contingent Account	9,655.52	
Receipts	16,584.44	
		$276,239.96
Disbursements		$276,239.96

ANNUAL REPORT

OF THE

Engineer and Superintendent of the Department of Water

ANNUAL REPORT

OF THE

Engineer and Superintendent of the Department of Water

Mr. Morris R. Sherrerd, Chief Engineer, Board of Street and Water Commissioners of the City of Newark, N. J.:

DEAR SIR:—Herewith is submitted the report of the condition and operation of the work of the Department of Water for the year ended December 31, 1913.

WATERSHED.

The regular maintenance work in the watershed has been continued as in the past. Inspections are made regularly so that all sections of the watershed are covered at least once a week. Microscopical and bacteriological examinations of the water are made regularly and no complaints of bad odors and taste in the water have been received during the year. The New York, Susquehanna and Western Railroad during the past year made extensive repairs to their tracks, and for that reason brought several forces of men to perform this work into the watershed. These men were quartered in cars on side tracks of the railroad and did their own cooking and washing. This department stationed not only men to see that these workmen did not use the brooks and river for their ablutions, but also furnished them with water at such places where these necessary operations could be performed without contamination of the water supply.

About 145,000 small trees, mostly ash, locust, scotch pine and spruce were planted in the watershed during the year. The ravages of the chestnut blight has necessitated the employment of a large number of men during the winter to cut out the dead and damaged trees. The removal of these trees decreases the danger from forest fires and is of direct benefit to the remaining trees. There will be some revenue from this due to the sale of the timber removed, as telephone poles, mine props, fence posts and cordwood.

Nine houses in the village of Macopin have been practically completed and will be occupied by department employees in April, 1914. The water and sewer systems installed in the village are designed to take care of additional houses in the village.

The following is a statement of land purchased in the watershed during the year:

1913.		Acres.
Jan. 10.	Edward Banta, West Milford Township, $2,500.00	108
Jan. 10.	Eliza Vanderhoof, plot of land, house and barn, West Milford Township, $5,000.00	3.00
Jan. 10.	Caroline A. Miller, house and lot, West Milford Township, $2,500.00	1.00
Jan. 10.	Agnes R. Ormsby, house and lot, West Milford Township, $1,500.00	1.10
Mch. 22.	Charles Card, Exr., Vernon Township, Sussex Co., N. J., $418.91	13.00
April 21.	Board of Education, Township of Vernon, Sussex Co., N. J. (inc. Canistear Public School), $350.00	0.50
April 21.	Trustees of Methodist Episcopal Church of Canistear (inc. Church Building), $750.00	1.50

May	2.	Nancy R. King, Windham Forge, The White Oak Flat tract, the Rude tract in Pequannock Watershed, $10,000.00	231.21
May	2.	Martin Hopper, one acre of vacant land in West Milford Township and building, used by him as blacksmith shop on Hamburg Turnpike in aforesaid township, $500.00	1.00
June	6.	The Franklin Iron Co., townships of Hardyston and Vernon, Sussex Co., N. J. (including all mineral rights held by company in watershed), $13,930.85	657.70
July	25.	John W. Kimble, 45 acres of land, including two houses in West Milford Township, Passaic Co., N. J., $4,300.00	45.00
Aug.	22.	Sarah L. Bell, one acre and building and undivided interest in adjoining lots, West Milford Township, Passaic Co., N. J., $2,000.00	1.00
Aug.	22.	Lucy Margarum, all real estate of which Wilmer S. Margarum, Cora B. Newman, Lucy K. Margarum, Lenora Norman, Noah H. Margarum died, seized, Haryston and Vernon Township, Sussex Co., N. J., $50,000.00	808.53
Aug.	29.	Mary E. Dwyer, Emma I. Dwyer, Lillian L. Dwyer, land in West Milford Township, Passaic Co., N. J., $1,000.00	22.27
Oct.	3.	Edward R. Weiss, balance of purchase price on lands and buildings in West Milford Township, Passaic Co., N. J., acquired in 1910, $5,000.	....
Dec.	5.	Passaic Co. Aid and Society for Prevention of Cruelty to Children, West Milford Township, $1,200.00	18.00
		Total acreage acquired during the year	1,912.81

The total amount of land now owned by the City of Newark in the watershed is about 36.2 square miles, or about 57 per cent. of the entire watershed.

The dam at Macopin Intake was repointed during the year, this being the first repair of any consequence made upon the dam since its construction in 1890.

The color and turbidity of the water are taken daily at Macopin Intake, and when the water becomes objectionable the supply mains feeding Cedar Grove reservoir are shut off and the city supplied with water from storage in said reservoir.

The 48-inch and 42-inch conduits from Macopin Intake to Belleville have needed no repairs except the necessary maintenance of the right-of-way. A test of these two pipe lines made in April, 1913, proved that they were able to deliver 54.6 million gallons per day to Cedar Grove reservoir. By opening the crossover at Pompton Notch their capacity can be increased by two million gallons per day.

Owing to the continued growth of the city the present water supply will soon be insufficient. The capacity of the Pequannock watershed can be increased about four million gallons per day by raising the dam at Oak Ridge reservoir ten feet, and it is recommended that work upon this project be started during the coming Spring. Preparations to be made during the early part of 1914, so that the necessary part of the work on the inside of the reservoir below the water line may be done rapidly when the reservoir is drawn down for the supply of the city, thus avoiding any waste of water from storage.

DISTRIBUTING SYSTEM.

CEDAR GROVE RESERVOIR.

This reservoir was in good condition throughout the whole year, and besides the regular routine work, nothing was required to be done.

The dam at Macopin Intake was repointed during the year, this being the first repair of any consequence made upon the dam since its construction in 1890.

The color and turbidity of the water are taken daily at Macopin Intake, and when the water becomes objectionable the supply mains feeding Cedar Grove reservoir are shut off and the city supplied with water from storage in said reservoir.

The 48-inch and 42-inch conduits from Macopin Intake to Belleville have needed no repairs except the necessary maintenance of the right-of-way. A test of these two pipe lines made in April, 1913, proved that they were able to deliver 54.6 million gallons per day to Cedar Grove reservoir. By opening the crossover at Pompton Notch their capacity can be increased by two million gallons per day.

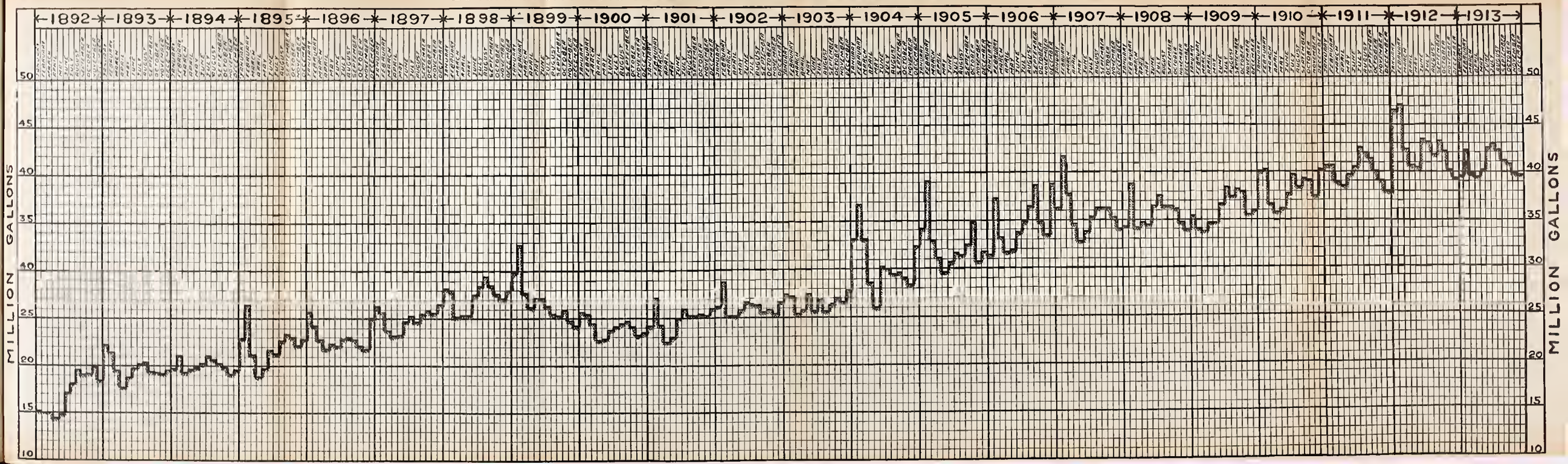
Owing to the continued growth of the city the present water supply will soon be insufficient. The capacity of the Pequannock watershed can be increased about four million gallons per day by raising the dam at Oak Ridge reservoir ten feet, and it is recommended that work upon this project be started during the coming Spring. Preparations to be made during the early part of 1914, so that the necessary part of the work on the inside of the reservoir below the water line may be done rapidly when the reservoir is drawn down for the supply of the city, thus avoiding any waste of water from storage.

DISTRIBUTING SYSTEM.

CEDAR GROVE RESERVOIR.

This reservoir was in good condition throughout the whole year, and besides the regular routine work, nothing was required to be done.

DIAGRAM SHOWING DAILY AVERAGE CONSUMPTION BY MONTHS 1892-1913



BELLEVILLE RESERVOIR.

The insufficiency of the supply of water in case of heavy fires, etc., made it necessary for Town of Belleville to enlarge their water system, and for this purpose the 24-inch connecting pipe that runs along the right-of-way on the easterly side of the reservoir fence and which was formerly used as a connecting pipe between pump main No. 2 and supply main No. 1 was reduced to 12-inch diameter, and then brought in the reservoir grounds. There provided with a 10-inch "Gem" meter with 12-inch by-pass and also a 12-inch check valve. This line is now supplying that part of the town of Belleville lying east of Washington Avenue.

Another connection of 16-inch diameter inside the reservoir ground south of the north fence of the reservoir was made with one of the 16-inch inlet pipes to the gatehouse supplying the reservoir. This line runs in an easterly direction parallel with the north fence of the reservoir toward the easterly line of the same and was provided with a 12-inch "Gem" meter and 16-inch by-pass brought outside the reservoir into Jorolemon street, taking its course through Jorolemon street in an easterly direction. This line supplies that part of the town lying west of Washington avenue.

SOUTH ORANGE AVENUE RESERVOIR.

This reservoir has been kept up in the same good condition as usual. A depression in the vertical wall on the south side of the reservoir should be taken down and rebuilt during the coming year.

CONSUMPTION.

The total consumption during the year amounted to 14,918.6 million gallons, and represents an average daily consumption of 40.8 million gallons.

The number of new taps made during the year was 1,686; of these 1,488 were of ⅝-inch diameter; 75 of 1-inch; 18 of 1½-inch; 44 of 2-inch; 7 of 3-inch; 42 of 4-inch and 12 of 6-inch.

The total number of taps in the city at the first of January, 1914, was 54,576, of which 51,025 were of ⅝-inch diameter; 2,231 of 1-inch; 36 of 1½-inch; 799 of 2-inch; 47 of 3-inch; 252 of 4-inch and 186 of 6-inch, while the number of taps in use was 45,802. The difference showing the services to vacant lots installed in advance of new pavements.

The average daily consumption per tap in use in the city was 882 gallons, which is a decrease as compared with 949 gallons in the year 1912.

One of the reasons for this decrease during the last year was that a portion of the Town of Irvington, which had been supplied by this city from January 1 to August 13, 1912, was discontinued on the latter date.

CONSUMPTION STATEMENT.

For the Year Ending December 31, 1913.

1913 MONTH	Total Consumption per Month, Million Gals.	Average Daily Consumption Million Gals.	Average Temperature	Rainfall, Inches
January	1,226.9	39.6	39.7	3.75
February	1,181.3	42.2	30.7	2.84
March	1,236.4	39.9	44.0	5.69
April	1,187.1	39.6	53.8	5.92
May	1,243.8	40.1	63.1	3.63
June	1,271.9	42.4	71.7	3.29
July	1,330.9	42.9	77.0	1.94
August	1,308.9	42.2	74.0	2.09
September	1,237.2	41.2	65.4	4.79
October	1,264.1	40.8	59.6	13.84
November	1,195.7	39.9	47.6	2.06
December	1,234.4	39.8	40.4	5.62
Totals	14,918.6	490.6		55.46
Average		40.8		

STREET MAIN EXTENSION.

The extensions to street mains in the City during the year 1913 were as follows:

5,595	lineal	feet	of	36	inch	diameter
66	"	"	"	24	"	"
38	"	"	"	20	"	"
90	"	"	"	16	"	"
3,934	"	"	"	12	"	"
527	"	"	"	10	"	"
1,309	"	"	"	8	"	"
21,417	"	"	"	6	"	"
1,354	"	"	"	4	"	"

$$34{,}330 \text{ lineal feet} = 6\frac{2650}{5280} \text{ Miles.}$$

The approximate mileage of pipe of different diameters, deducting old pipes which were taken out and adding new pipes of larger size in place of the old pipe removed, is as follows:

43,200	lineal	feet	of	60	inch	diameter
141,197	"	"	"	48	"	"
82,192	"	"	"	42	"	"
56,102	"	"	"	36	"	"
24,920	"	"	"	30	"	"
51,091	"	"	"	24	"	"
47,005	"	"	"	20	"	"

37,347	"	"	"	16	"	"
87,608	"	"	"	12	"	"
75,425	"	"	"	10	"	"
96,698	"	"	"	8	"	"
1,246,680	"	"	"	6	"	"
148,143	"	"	"	4	"	"

$$2{,}137{,}648 \text{ lineal feet} = 404\ \frac{4528}{5280} \text{ Miles.}$$

This does not include any pipe connected with the High Pressure system.

Belleville Township laid:

7,724	lineal	feet	of	12	-inch	diameter
1,749	"	"	"	6	"	"

$$9{,}473 \text{ lineal feet} = 1\ \frac{4193}{5280} \text{ Miles.}$$

The amount of work done in relaying pipe was as follows:

7,264	lineal	feet	of	12	-inch	diameter
613	"	"	"	6	"	"

$$7{,}877 \text{ lineal feet} = 1\ \frac{2597}{5280} \text{ Miles.}$$

Total length of pipe connected with the work is as follows:

In the City	404 4528/5280	Miles
Belleville Township	21 1596/5280	Miles
Total	426 844/5280	Miles

The amount of work done in relaying pipe was as follows:

2,284 lineal feet of 6-inch diameter
587 " " " 4 " "

2,871 lineal feet = 0 $\frac{2871}{5280}$ Miles.

During the year 130 new hydrants were set; of these 64 were substituted in place of old hydrants, and 66 were added to the number already in place, making the total number of hydrants:

In the City	3,104
Silver Lake and Belleville Res	19
Total	3,123

The following statement shows the number, type and size of bottom connection of the different hydrants in use:

9 A. P. Smith hydrants with 8-inch bottom connection
685 A. P. Smith hydrants with 6-inch bottom connection
932 A. P. Smith hydrants with 4-inch bottom connection
409 Galvin hydrants with 4-inch bottom connection (Michigan Brass & Iron Works.)
169 Corey hydrants with 6-inch bottom connection (Rensselaer Valve Company.)
181 Corey hydrants with 4-inch bottom connection
501 Kennedy hydrants with 4-inch bottom connection
83 Ludlow hydrants with 6-inch bottom connection
141 Ludlow hydrants with 4-inch bottom connection
4 R. D. Wood hydrants with 4-inch bottom connection
9 Hewes & Phillips hydrants with 4-inch bottom connection

3,123

36-inch cast iron feeder.

It has been stated in previous reports that the increase in consumption in the lowest sections of the city made it necessary, in order to keep up the required pressure of the low pressure system in case of fire, etc., to feed from the high pressure into the low pressure system, and by so doing decreased the pressure of the high pressure system during times of heavy draft of water to such an extent that it was necessary to contemplate the laying of a 36-inch cast iron water pipe, and owing to the proposed paving of Broad street, work was started early in the year. Connections were made at the intersection of Broad and Walnut and also at Court and Broad streets with the 24 and 16-inch mains respectively in Broad street, and also the 20-inch main in Walnut street. From there the 36-inch pipe was laid in Court street from Broad street west to Plane street, and in the latter street from Court street north to the intersection of Market and Plane streets, and thence from the north side of Market and Plane streets to the intersection of Plane street and Central Avenue (the intersection of Plane and Market street was done two years ago previous to the paving of Market street).

It is the intention to continue this line of pipe during the coming year in Plane street from Central avenue north to State street, and in State street west to Boyden street; in Boyden street north to Eighth avenue and in Eighth avenue west to the intersection of Clifton and Eighth avenues, and from there through Branch Brook Park along and partly parallel with the northerly line of Eighth avenue to the easterly line of the Morris Canal, and thence northerly along the easterly side of the Morris Canal to about three hundred feet (300) north of the north side of Seventh avenue, and thence diagonally across the Morris Canal to the westerly side of the same; thence northerly along the westerly side of the Morris Canal to a point about four

hundred and fifty feet (450) south of the south side of Park avenue and eighteen (18) feet east of the east side of Fourth street. From this latter point the 36-inch pipe in Fourth street north of Park avenue to Park avenue and through the latter to the intersection of Park avenue and North Sixth street was laid previous to the pavement of said street during the years 1912 and 1913.

It is further intended to continue this line during this coming year from the intersection of Park avenue and North Sixth street north to the intersection of North Sixth street and Bloomfield avenue and there to make the different connections with the various feeders coming from the Cedar Grove and Belleville reservoirs.

Numerous complaints in regard to poor water pressure were received from the Clinton Hill section between South Orange avenue and Clinton avenue and west of South Tenth street. This part of the city is of high elevation (from 200 to 230 feet above level of sea) and the complaints in regard to poor pressure were undoubtedly due to not having sufficient feeders, and inasmuch as South Orange avenue from South Ninth street westerly to the boundary line between Newark and South Orange is on the list to be paved, it is the intention to lay larger feeders in the latter and to connect the different feeders of the side streets supplying this district with the proposed feeder in South Orange avenue, and by so doing increase the pressure and volume of water in said locality.

I would also call attention to the necessity of completing the laying of a 24-inch connecting pipe in Old Bloomfield Road between the 36-inch cast iron and 36-inch steel pipe. Said connecting pipe having been started two years ago and could not be finished at that time on account of not having the right-of-way across private property located on the north side of the Old Bloomfield Road and Second street.

As stated in last year's report, a 20-inch feeder ought to be laid in Gotthardt street from Chestnut street north to Hamburg place and there to be connected with a 16-inch feeder which is to be laid in Hamburg place from Komorn street east to Avenue L, and a 12-inch feeder from Avenue L easterly to Doremus avenue. These two latter feeders should be laid on account of the construction of the Passaic Valley Trunk Sewer, inasmuch as the same is to be partly constructed underneath our present supply pipe, which is supplying all the factories along Hamburg place and also those located along the shore of the Newark Bay, and which factories will surely be out of water in case of a break on said line.

The laying of said feeders are also necessary on account of the construction of the Pumping Station of the Passaic Valley sewerage system, which will require a great deal of water in a few years' time and more than the present pipe will be able to supply.

Another feeder of 12-inch diameter ought to be laid in Avenue L from Magazine street to St. Charles street and through the latter from Avenue L to Berlin street and in Berlin street across the Central Railroad of New Jersey. A part of this section is on the list to be paved and said line would complete a feeder between Hamburg place and Ferry street.

In order to do away with many dead ends in our distributing system which are partly due to the division lines between the different reservoir levels, it is the intention to reorganize this system by laying two mains in some of the streets, where required.

HIGH PRESSURE SYSTEM.

During the past year about 15,437 feet of high pressure pipe was laid, ranging from 6 to 20 inches in diameter. The following is a statement of said work:

HIGH PRESSURE EXTENSIONS.

The extension of high pressure mains during the year 1913 was as follows:

1,376	lineal	feet	of	20	inch	diameter
6,575	"	"	"	16	"	"
7,304	"	"	"	12	"	"
144	"	"	"	8	"	"
38	"	"	"	6	"	"

$$15{,}437 \text{ lineal feet} = 2\frac{4877}{5280} \text{ Miles.}$$

The approximate mileage of pipe of different diameters up to January 1, 1914, was as follows:

4,884	lineal	feet	of	30	inch	diameter
2,536	"	"	"	24	"	"
11,694	"	"	"	20	"	"
33,571	"	"	"	16	"	"
13,494	"	"	"	12	"	"
5,060	"	"	"	8	"	"
285	"	"	"	6	"	"

$$71{,}524 \text{ lineal feet} = 13\frac{2884}{5280} \text{ Miles.}$$

Thirty-seven new hydrants were connected with this high pressure system during the year, making a total of 211 high pressure hydrants up to January 1, 1914.

The following statement shows the number, type and size of bottom connections of hydrants connected with said system:

16 Corey hydrants 6-inch bottom connection, 2 2½-inch and 1 4¾-inch nozzles.
51 Corey hydrants 8-inch bottom connection, 4 2½-inch and 1 4¾-inch nozzles.
144 A. P. Smith hydrants 8-inch bottom connection, 4 2½-inch and 1 4¾-inch nozzles.

211

Different high pressure feeders referred to in last year's report were completed during the near, namely: Broad street from Marshall street south to Chestnut street; Broad street north of Central avenue to north side of Lombardy street; Broad street east side from Orange street to Clay street; William street from Arlington street to West street, etc., etc.

(Location and size of these feeders are given in appended statement.)

On account of the great demand for the extension of high pressure feeders, it is the intention to extend this system during the coming year in the following streets, and the necessary funds for this work were provided by the issue of bonds:

Chapel street from Bowery to Lister avenue.
Lister avenue from Chapel street to Lockwood street.
Lockwood street from Lister avenue to Ferry street.
Passaic avenue from Lockwood street to Blanchard street.
North Canal street from east side of Mulberry street to dead end east of Park place.
Park place from Rector street to North Canal street.
Washington street from William street north.
Plane street from William street to Market street.
Plane street from Academy street to Orange street.
Christie street from dead end to Passaic avenue.

Passaic avenue from Christie street to Brill street.
Washington street from Bank street south.
Clinton street from Mulberry street west.
Mulberry street from Mechanic street to Chestnut street.

ELECTROLYSIS.

The usual statements showing the destruction of services by electrolysis are appended. It will be noticed that there is a considerable increase in the number during the last year over previous years, which was largely due to the exposure of all house connections on Springfield avenue owing to the contemplated paving of said street. Aside from this, nothing of a serious nature occurred due to this cause, but it is advisable to continue, as in the past, to give the prevention of this evil the greatest attention.

Negotiations with the Public Service Corporation are under way regarding methods to be adopted to reduce the danger to water structures from this cause and some conclusion as to what should be done will no doubt be arrived at during the coming year.

In conclusion, I wish to express my appreciation of the hearty co-operation and assistance rendered by all my assistants during the year.

Respectfully submitted,

G. SANZENBACHER,
Engineer and Superintendent Dept. of Water.

DETAILED STATEMENTS

TO ACCOMPANY

Report of Engineer and Superintendent

DEPARTMENT OF WATER

(DISTRIBUTING SYSTEM)

STATEMENT OF PIPE LAID IN 1913.

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet									Stops	Hydrants
		36″	24″	20″	16″	12″	10″	8″	6″	4″		
January	Maple Avenue, from Weequahic Avenue to Lyons Avenue								289		1	
"	Lyons Avenue, from Maple Avenue east								76		1	
"	Bock Avenue, connecting dead ends between Seymour Avenue and Osborne Terrace								387			
"	Parker Street, east side, from Abington Avenue south								406		1	
"	Parker Street, east side, from dead end north of Second Ave. north									424		
February	North Twelfth Street, from Sixth Avenue to Seventh Avenue								795			1
"	Keer Avenue, from Elizabeth Avenue west								288			1
March	Lehigh Avenue, from dead end west of Bergen Street west								36			
April	Mapes Avenue, from dead end west of Bergen street west								228			
"	South Fifteenth Street, from dead end south of Randolph Pl. south								12			
"	Christie Street, from Ferry Street to Bonykamper Avenue								922		1	1
"	Bonykamper Avenue, from Christie Street east to dead end								111			1
"	King Street, crossing east side of Broad Street								43		1	1
"	Scheider Avenue, from Osborne Terrace east								339			1
"	Custer Avenue, from dead end west of Seymour Avenue west								60			
"	Broad Street, south side of Camp Street, cross connections from 16″ main to 20″ main				50						1	
May	Pine Grove Terrace, from dead end south of So. Orange Ave. south								294			1
"	Vanderpool Street, from dead end east of Avenue A east								24			
"	South Fifteenth Street, from Hawthorne Avenue north to dead end								748		1	1
"	Grafton Avenue, from Summer Avenue east to dead end					838					2	1
June	Ivy Street, from Sandford Avenue west								169		1	
	Carried forward				50	838			5,227	424	10	9

STATEMENT OF PIPE LAID IN 1913—*Continued.*

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet									Stops	Hydrants
		36″	24″	20″	16″	12″	10″	8″	6″	4″		
	Brought forward				50	838			5,227	424	10	9
June	Court Street, from east side of Broad Street west	102										
"	Broad Street, east side, from Court Street to Walnut Street	124										
"	Walnut Street, from Broad Street east	54									1	
"	Broad Street, west side, from Court Street south, connecting 36″ main to 24″ main		45								1	
"	Broad Street, east side, in front of City Hall, connecting 16″ main to 12″ main				40							
"	Walnut Street, east of Broad Street, connecting 36″ main to 20″ main		21	38							3	
"	Miller Street, from Avenue B west to dead end								336			
"	N. J. R. R. Avenue, east side, crossing south side of Miller Street								48			
"	N. J. R. R. Avenue, west side, crossing Miller Street								87			
"	Ferdinand Street, from South Twentieth Street west to dead end								265		1	
"	Pomona Avenue, from Clinton Place east								271		1	1
"	Sussex Avenue and Duryee Street, connecting 6″ main to 20″ main								29		2	
"	Vassar Avenue, from Clinton Place to Maple Avenue								584		2	1
July	Ridgewood Avenue, from Marie Place north								124		1	
"	Ridgewood Avenue, from Hawthorne Avenue south								31		1	
"	Gould Avenue, from South Tenth Street west								44		1	
"	Ridgewood Avenue, connecting dead ends between Hawthorne Avenue and Marie Place								527		1	1
"	Belmont Terrace, from Ridgewood Avenue east								241		1	
"	St. James Place, from Dewey Street east								37		1	
	Carried forward	280	66	38	90	838			7,851	424	27	12

STATEMENT OF PIPE LAID IN 1913—*Continued.*

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet									Stops	Hydrants
		36″	24″	20″	16″	12″	10″	8″	6″	4″		
	Brought forward	280	66	38	90	838			7,851	424	27	12
July	Plank Road, south side from Blanchard Street east to Ladew Co. bridge, or 875 feet west of Passaic River					1,908					3	3
"	Plank Road, from south side north to center of road opposite Ladew Co. bridge							61			1	
"	Fourth Street, from Park Avenue south	402										
"	North Eleventh Street, from Bloomfield Avenue to 230 feet south of Abington Avenue								819		3	1
"	Peddie Street, from dead end east of Frelinghuysen Avenue east							324				1
August	Broad Street, opposite State Street, connecting 6″ main to 12″ main								51			
"	Bergen Street, from Chancellor Avenue to Keer Avenue						494				2	2
"	Plank Road, south side, from opposite Ladew Co. bridge east to Avenue R					570						
"	Plank Road, south side from Avenue R east to Passaic River								283		1	1
"	Plank Road, from center of road opposide Ladew Co. bridge north							36				
"	Tremont Avenue, from Chelsea Avenue to Cedar Avenue								219			1
"	Chelsea Avenue, from Tremont Avenue north to City Line								232		1	1
"	Lyons Avenue, north side, from east side of Osborne Terrace west								116		3	
"	Lyons Avenue, south side, from east side of Osborne Terrace west								89		1	1
"	Osborne Terrace, west side, from south side of Lyons Avenue north								71		1	
"	Osborne Terrace, east side, from north side of Lyons Avenue north								24			
"	Adams Street, from dead end south of Thomas Street, south to Harper Street								305		2	1
"	Abington Avenue, from Parker Street to Highland Avenue								205		1	1
	Carried forward	682	66	38	90	3,316	494	421	10,265	424	46	25

STATEMENT OF PIPE LAID IN 1913—*Continued.*

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet									Stops	Hydrants
		36″	24″	20″	16″	12″	10″	8″	6″	4″		
	Brought forward	682	66	38	90	3,316	494	421	10,265	424	46	25
August	Highland Ave., east side, from dead end north of Second Ave. north									300	....	....
"	N. J. R. R. Avenue, east side, from Vanderpool Street to Alpine Street							755	34		3	1
"	Alpine Street, from N. J. R. R. Avenue east							100			1	1
"	Woodside Avenue, from Montclair Avenue to Coeyman Street								368		1	....
September	Margaretta Street, from Avenue L east								399		....	1
"	South Sixteenth Street, from Sixteenth Avenue, north to dead end								240		....	....
"	Ridge Street, from Second Avenue north								371		1	1
"	Huntington Terrace, from Hawthorne Avenue South								912		3	2
"	Heller Parkway, from North Sixth Street east								265		1	1
"	Christie St, east side, from Bonykamper Ave north (private pipe)									274	1	....
October	Broad Street, south of Orange Street, cross connection from 24″ main to 8″ main						33				....	....
"	Montgomery Avenue, from dead end south of Avon Avenue south								24		....	....
"	Springfield Avenue, south side, from 50 ft. west of High Street west								353		2	....
"	Thomas Street, from dead end west of Adams Street west								151		....	1
"	Woodside Place, from Arlington Avenue south to dead end								983		1	1
"	Woodside Place, from Woodside Place south									40	1	....
"	Hecker Street, from Dickerson Street to Sussex Avenue								408		....	....
November	Plymouth Street, from South Munn Avenue to Columbia Avenue								220		1	....
"	Plymouth Street, from Isabella Avenue to Vermont Avenue								210		....	1
"	Plane Street, east side, from south side of Market Street to Court St.	1,674									....	1
"	Court Street, north side, from Plane Street to dead end west of Broad Street	1,026									....	1
	Carried forward	3,382	66	38	90	3,316	527	1,276	15,203	1,038	62	37

STATEMENT OF PIPE LAID IN 1913—*Continued.*

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet									Stops	Hydrants
		36″	24″	20″	16″	12″	10″	8″	6″	4″		
	Brought forward	3,382	66	38	90	3,316	527	1,276	15,203	1,038	62	37
November	Vermont Avenue, from Laurel Place south								132			
"	Goldsmith Avenue, from Clinton Place to Maple Avenue								608		2	1
"	Grand Avenue, from South Orange Avenue north								348			1
"	Schley Street, from Shaw Avenue to Lyons Avenue								647		2	3
"	Bragaw Avenue, from Schley Street east								39			
"	Schuyler Avenue, from Hawthorne Avenue south								67			
"	Wolcott Terrace, from Hawthorne Avenue south								64			
"	Maple Avenue, west side from Hawthorne Avenue south								59			
December	Ridge Street, from dead end north of Second Avenue north to Abington Avenue								1,187		2	3
"	Shephard Avenue, from dead end 450 ft. west of Bergen Street west								120			
"	North Tenth Street, from dead end north of Chester Avenue north to Delavan Avenue								475		1	1
"	Delavan Avenue, from North Tenth Street east to dead end								132			
"	Weequahic Avenue, from Maple Avenue east								484		1	1
"	Maple Avenue, east side, from Hawthorne Avenue south					73					1	
"	Marion Place, from West Kinney Street south									316	1	
"	Morris Avenue, crossing Springfield Avenue					136						
"	Schuyler Avenue, from Hawthorne Avenue to Eckert Avenue								1,082		2	3
"	Warwick Street, from dead end east of Tyler Street east to Lang St.								291			1
"	Jay Street, from Dickerson Street to Sussex Avenue								384			
"	Renner Avenue, south side from Clinton Place to Maple Avenue					409		33			4	
"	Schuyler Avenue, from Renner Avenue north								48			
	Carried forward	3,382	66	38	90	3,934	527	1,309	21,370	1,354	78	51

STATEMENT OF PIPE LAID IN 1913—*Continued.*

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet									Stops	Hydrants
		36″	24″	20″	16″	12″	10″	8″	6″	4″		
	Brought forward	3,382	66	38	90	3,934	527	1,309	21,370	1,354	78	51
December	Huntington Terrace, from Renner Avenue north	.....	.....	.....	.....	.....	.....	.....	47	.....	....	....
"	Plane Street, west side, from north side of Market Street to north side of Plum Street	895	.....	.....	.....	.....	.....	.....	.....	.....	1	....
"	Plane Street, west side, from north side of Plum Street to south side of Central Avenue	1,318	.....	.....	.....	.....	.....	.....	.....	.....	....	....
	Totals	5,595	66	38	90	3,934	527	1,309	21,417	1,354	79	51

During the year 34,330 lineal feet of pipe have been laid in the City, of which

5,595 lineal feet of 36 inch diameter
66 " " " 24 " "
38 " " " 20 " "
90 " " " 16 " "
3,934 " " " 12 " "
527 " " " 10 " "
1,309 " " " 8 " "
21,417 " " " 6 " "
1,354 " " " 4 " "

} 34,330 lineal feet = 6 and 2650/5280 miles.

STATEMENT OF PIPE RELAID IN 1913.

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet						Stops	Hydrants
		16″	12″	10″	8″	6″	4″		
January	Broad Street, east side, from north side of Chestnut Street to north side of Thomas Street	1,511						1	2
"	Green Street, crossing east side of Broad Street				33				
"	Franklin Street, crossing east side of Broad Street					38			
"	Lafayette Street, crossing east side of Broad Street				68			1	1
"	Broad Street, east side, from north side of Lafayette Street to north side of Walnut Street	1,066						2	2
February	Front Street, from Center Street north				504			1	2
April	William Street, crossing west side of Broad Street				61			1	
"	Broad Street, east side, from Orange Street to Clay Street		1,627					1	1
"	Broad Street, east side, from Orange Street south to dead end				153			1	1
"	Clay Street, connecting to Broad Street main				27				
"	Eighth Avenue, crossing east side of Broad Street					12			
"	Grant Street, crossing east side of Broad Street				40			1	1
"	Cross Street, crossing east side of Broad Street					16			
"	Orange Street, crossing east side of Broad Street				44			1	
"	Division Street, crossing east side of Broad Street					14			
"	Broad Street, east side, from north side of Thomas Street to Vanderpool Street	2,202						2	1
"	Murray Street, crossing east side of Broad Street				73			1	1
"	Parkhurst Street, crossing east side of Broad Street				34			1	
"	Wright Street, crossing east side of Broad Street				14				
"	Vanderpool Street, crossing west side of Broad Street					22		1	
	Carried forward	4,779	1,627		1,051	102		15	12

STATEMENT OF PIPE RELAID IN 1913—*Continued.*

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet						Stops	Hydrants
		16″	12″	10″	8″	6″	4″		
	Brought forward	4,779	1,627	.....	1,051	102	.....	15	12
April	Miller Street, crossing east side of Broad Street	.....	.....	.....	.....	15	.....	....	....
"	Astor Street, crossing east side of Broad Street	.....	.....	.....	18	.....	.....	....	....
"	Miller Street, crossing west side of Broad Street	.....	.....	.....	.....	13	.....	1	....
"	Emmet Street, crossing east side of Broad Street	.....	.....	.....	55	.....	.....	1	1
"	Pennington Street, crossing east side of Broad Street	.....	.....	.....	27	.....	.....	....	....
"	Tichenor Street, crossing east side of Broad Street	.....	.....	.....	49	.....	.....	1	1
"	Camp Street, crossing east side of Broad Street	.....	.....	.....	21	.....	.....	....	....
"	Chestnut Street, crossing east side of Broad Street	.....	.....	.....	28	.....	.....	....	....
"	South Street, crossing east side of Broad Street	.....	.....	.....	.....	36	.....	1	....
"	Thomas Street, crossing east side of Broad Street	.....	.....	.....	47	.....	.....	1	1
May	Belleville Avenue, crossing west side of Broad Street	.....	.....	.....	145	.....	.....	1	....
"	Broad Street, west side, from Belleville Avenue to Eighth Avenue	.....	.....	.....	534	.....	.....	4	....
"	Grant Street, from east side of Broad Street to Spring Street	.....	.....	.....	527	.....	.....	2	....
"	Clay Street, crossing west side of Broad Street	.....	.....	.....	.....	58	.....	1	....
"	Broad Street, east side, from north side of West Park Street north to Park Place	958	.....	.....	.....	.....	.....	2	3
June	Broad Street, east side, from north side of Market Street north to north side of West Park Street	1,221	.....	.....	.....	.....	.....	2	1
"	Commerce Street, crossing east side of Broad Street	.....	.....	.....	52	.....	.....	1	....
"	Broad Street, east side, from Commerce Street to Centre Market Pl.	.....	.....	.....	.....	181	.....	1	1
"	Clinton Street, crossing east side of Broad Street	.....	.....	.....	40	.....	.....	1	....
"	North Canal Street, crossing east side of Broad Street	.....	.....	.....	28	.....	.....	1	....
"	Thomas Street, crossing west side of Broad Street	.....	.....	.....	.....	43	.....	1	....
	Carried forward	6,958	1,627	.....	2,622	448	.....	37	20

STATEMENT OF PIPE RELAID IN 1913—*Continued.*

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet						Stops	Hydrants
		16″	12″	10″	8″	6″	4″		
	Brought forward	6,958	1,627		2,622	448		37	20
June	Broad Street, east side, connecting dead ends north and south sides of Walnut Street	128							
"	Walnut Street, crossing east side of Broad Street					10		1	
"	Bank Street, from Comes Alley to High Street					511	36	1	
"	Eighth Avenue, crossing west side of Broad Street			43				1	
"	Spruce Street, from Washington Street to High Street					697			1
"	Broad Street, west side, from 200 ft. south of Orange Street south to Washington Street					120			1
August	Garden Street, east side of McWhorter Street, connecting dead ends						27		
September	Mechanic Street, from 225 ft. east of Broad Street, east to Mulberry Street		546					2	1
"	Mechanic Street, crossing Mulberry Street		68						
"	Central Avenue, crossing west side of Broad Street			67				1	
October	William Street, from West Street east					313		1	1
"	Hamburgh Place, north side, from Avenue L to west side of Central Railroad		930					2	3
"	Hamburgh Place, north side, from east side of Central Railroad to Doremus Avenue		1,123			171		5	
November	Mercer Street, from Prince Street east					193		1	1
"	Prince Street, crossing north side of Springfield Avenue					52		1	1
"	Rankin Street, crossing north side of Springfield Avenue					43		1	
"	Hamburg Place, north side, crossing Central Railroad (wrought-iron pipe)		144						
	Carried forward	7,086	4,438	110	2,622	2,558	63	54	29

STATEMENT OF PIPE RELAID IN 1913—*Continued.*

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet						Stops	Hydrants
		16″	12″	10″	8″	6″	4″		
	Brought forward	7,086	4,438	110	2,622	2,558	63	54	29
November	Hamburg Place, north side, crossing and connecting dead ends east and west of Central Railroad	144	80					....	....
"	Charlton Street, crossing south side of Springfield Avenue				76			1	1
"	Bedford Street, crossing north side of Springfield Avenue					76		1	1
"	Sayre Street, crossing south side of Springfield Avenue					61		1	1
"	Howard Street, crossing Springfield Avenue					131		2	1
December	Grafton Avenue, cross connection across Washington Avenue		36		20			1	....
"	Bruce Street, from south side of Springfield Avenue north					70		1	1
"	Springfield Avenue, crossing Morris Avenue					75		2	....
"	Morris Avenue, crossing south side of Springfield Avenue					25		1	....
"	Mercer Street, from Broome Street west					126		....	....
	Totals	7,230	4,554	110	2,718	3,122	63	64	34

During the year 17,797 lineal feet of pipe have been relaid in the City, of which

7,230 lineal feet of 16 inch diameter
4,554 " " " 12 " "
110 " " " 10 " "
2,718 " " " 8 " "
3,122 " " " 6 " "
63 " " " 4 " "

} 17,797 lineal feet = 3 and 1957/5280 miles.

STATEMENT OF PIPE LOWERED IN 1913.

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet		Stops	Hydrants
		6"	4"		
May	First Avenue, from Third Street west	300	.....	.....	1
June	Crawford Street, from Washington Street west	.....	587	.....	.....
"	Wainwright Street, from Shaw Avenue south	250	.....	.....	.....
August	Woodside Avenue, from Delavan Avenue north	300	.....	1	.....
October	Lake Street, from Franklin Street to Honiss Street (Silver Lake)	664	.....	1	1
November	Lyons Avenue, from west side of Fabyan Place east	90	.....	.....	.....
December	Watchung Avenue, from Franklin Street north (Silver Lake)	680	.....	1	1
	Totals	2,284	587	3	3

During the year 2,871 lineal feet of pipe have been lowered in the City, of which

2,284 lineal feet of 6 inch diameter
587 " " " 4 " " } 2,871 lineal feet = 0 and 2871/5280 miles.

PIPE LAID, RELAID AND LOWERED.

YEAR ENDING DECEMBER 31, 1913.

	Length in Lineal Feet									Totals	Stops	Hydrants
	36″	24″	20″	16″	12″	10″	8″	6″	4″			
Pipe Laid (extensions)	5,595	66	38	90	3,934	527	1,309	21,417	1,354	34,330	79	51
Pipe Relaid (substitution of large for small pipes and replacing old horizontal cast pipes)	.....	....	....	7,230	4,554	110	2,718	3,122	63	17,797	64	34
Pipe Lowered	.....	....	....	.....	.....	.....	.....	2,284	587	2,871	3	3
Miscellaneous (new valves, valves on hydrants, in substitution for broken valves and replaced hydrants)	.....	....	....	.....	.....	.....	.....	.....	.....	.....	126	
Totals	5,595	66	38	7,320	8,488	637	4,027	26,823	2,004	54,998	272	88

Total pipe laid, relaid and lowered during the year equals 54,998 lineal feet = 10, 2198/5280 miles.
Total mileage of pipe connected with the works at the end of the year, 404, 4528/5280 miles.

STATEMENT OF SERVICES

FOR YEAR ENDING DECEMBER 31, 1913.

⅝-INCH SERVICES, MONTH	No. of New Services	No. of Services Renewed	No. of Taps Only	No. of Stops and Boxes	No. of New Watertakers	No. of Feet of Pipe	Charges
January	52	6	.....	17	83	882.0	$ 846.74
February	33	5	2	6	56	656.5	544.87
March	41	2	1	11	53	811.5	639.95
April	58	18	1	11	65	1,529.5	1,034.28
May	129	5	.....	12	91	2,611.5	1,907.95
June	149	53	.....	13	83	3,331.0	2,672.43
July	245	1	1	22	92	4,252.5	3,516.18
August	105	2	.....	13	100	2,044.0	1,551.24
September	109	56	.....	7	77	2,990.5	2,149.34
October	173	3	.....	14	82	2,874.0	2,511.60
November	288	3	.....	19	77	4,739.0	4,136.01
December	106	8	1	24	82	1,866.0	1,683.90
Totals	1,488	162	6	169	941	28,588.0	$23,194.49

STATEMENT OF SERVICES

FOR YEAR ENDING DECEMBER 31, 1913.

1-INCH SERVICES, MONTH	No. of New Services	No. of Services Renewed	No. of Taps Only	No. of Stops and Boxes	No. of New Watertakers	No. of Feet of Pipe	Charges
January	3	4	1	.....	4	123.0	$ 125.00
February	1	2	.....	.....	4	69.0	60.00
March	8	1	.....	.....	5	242.0	180.00
April	18	11	.....	.....	9	520.5	582.50
May	6	5	.....	.....	7	199.0	220.00
June	11	14	.....	.....	4	334.0	500.00
July	10	6	.....	.....	7	322.0	320.00
August	5	6	.....	.....	6	230.5	220.00
September	4	10	.....	.....	3	322.0	282.50
October	5	1	.....	.....	5	116.0	120.00
November	1	1	.....	.....	1	42.5	40.00
December	3	6	.....	.....	4	133.0	180.00
Totals	75	67	1		59	2,653.5	$2,830.00

RECAPITULATION, 1913.

SIZE	No. of New Services	No. of Services Renewed	No. of Taps Only	No. of Stopsand Boxes	No. of New Watertakers	No. of Feet of Pipe	Charges
⅝ inch	1,488	162	6	169	941	28,588.0	$23,194.49
1 inch	75	67	1	.....	59	2,653.5	2,830.00
Totals	1,563	229	7	169	1,000	31,241.5	$26,024.49

SPECIAL SERVICE CONNECTIONS

FROM JANUARY 1, 1913, TO DECEMBER 31, 1913.

MONTH	1½″	2″	3″	4″	6″	Total
January	.....	1	1	2	2	6
February	1	2	1	.....	.....	4
March	.....	5	.....	2	.....	7
April	.....	3	.....	8	.....	11
May	2	3	3	4	1	13
June	2	3	1	12	.....	18
July	2	3	.....	1	1	7
August	2	5	.....	2	4	13
September	2	4	.....	3	1	10
October	3	4	.....	5	1	13
November	2	3	.....	3	2	10
December	2	8	1	.....	.....	11
Totals	18	44	7	42	12	123

METERS SET BY CONSUMERS, 1913.

MONTH	Trident							Lambert						Gamon		Hersey			Crown		Bee	Nash	Gem		Total
1913	5/8"	1"	1½"	2"	3"	4"	6"	5/8"	1"	1½"	2"	3"	4"	5/8"	1"	5/8"	4"	6"	5/8"	1"	5/8"	5/8"	6"	10"	
January	13	7	1	1	....	....	....	33	2	....	....	....	....	33	....	2	....	....	1	....	....	2	....	....	95
February	30	1	....	1	....	....	....	25	4	....	....	....	....	26	3	3	....	1	....	1	....	1	....	....	96
March	17	1	1	....	....	....	1	23	3	1	....	....	....	40	2	16	....	1	....	....	1	....	....	....	107
April	37	8	....	....	....	1	....	25	2	....	....	....	....	31	3	12	....	1	....	....	....	2	....	....	122
May	34	3	....	2	....	....	....	53	6	1	2	1	....	48	2	10	....	1	....	....	1	1	....	....	165
June	36	2	....	2	....	....	....	48	2	....	4	..	....	48	2	3	....	....	....	....	....	2	....	....	149
July	31	1	....	3	1	1	....	29	5	....	1	2	....	45	....	1	....	....	....	....	....	....	....	....	120
August	27	9	1	1	....	....	....	31	1	....	..	....	1	48	2	4	....	....	....	....	....	....	....	....	125
September	20	2	2	2	....	....	....	45	4	1	1	....	....	51	2	....	....	1	....	....	1	....	1	1	134
October	31	3	....	2	1	....	....	17	3	1	2	....	....	46	2	....	....	2	....	1	....	....	....	....	111
November	44	3	....	1	1	....	....	53	3	1	....	....	....	1	1	4	....	4	....	....	....	....	....	....	116
December	37	1	1	1	....	....	....	44	2	....	....	2	....	1	1	....	1	....	....	....	1	....	....	....	92
Totals	357	41	6	16	3	2	1	426	37	5	10	5	1	418	20	55	1	11	1	2	4	8	1	1	1,432

Number of meters in use January 1, 1913..... 24,729
Total number of meters set during 1913..... 1,432

Total number of meters in use January 1, 1914..... 26,161

TOTAL NUMBER OF METERS IN USE DECEMBER 31, 1913.

KIND	5/8"		3/4"		1"		1½"		2"		3"	4"	6"		10"	12"	Total
		Pr'p'ty of the Board		Pr'p'ty of the Board		Pr'p'ty of the Board		Pr'p'ty of the Board		Pr'p'ty of the Board				Pr'p'ty of the Board		Pr'p'ty of the Board	
Lambert	7,572	1,225	21	4	400	55	53	2	155	.....	34	18	4	....	....	....	9,543
Bee	1,373	.....	27	.....	152	5	20	.....	42	.....	9	3	1	....	...	....	1,632
Trident	6,592	701	9	.....	561	6	32	.....	161	.....	40	23	8	....	....	....	8,133
" Crest	.....	.....	....	.....	.....	.....	....	.....	2	.....	8	5	7	1	1	....	24
" Comp'd	.....	.....	....	.....	.....	.....	....	.....	2	.....	....	....	1	....	....	....	3
Gamon	1,590	.....	....	.....	59	.....	....	.....	.....	.....	....	....	....	....	....	....	1,649
Hersey	1,553	296	....	.....	37	9	8	.....	12	.....	3	3	11	....	....	1	1,933
Nash	1,753	812	17	.....	83	28	4	.....	25	.....	2	....	....	....	....	....	2,724
Crown	267	.....	14	.....	104	.....	5	.....	15	.....	5	1	4	....	....	....	415
Gem	.....	.....	....	.....	.....	.....	....	.....	12	.....	4	4	5	....	1	....	26
Worthington	6	.....	2	.....	13	.....	5	.....	16	1	9	6	....	....	..	....	58
Rotary	.....	.....	....	.....	.....	.....	...	.....	.....	.....	1	....	....	....	....	....	1
Columbia	18	.....	....	.....	.....	.....	..	.....	.....	.....	...	....	....	....	....	...	18
Union	2	.....	....	.....	.....	.....	....	.....	.....	.....	....	....	....	....	..	....	2
	20,726	3,034	90	4	1,409	103	127	2	442	1	115	63	41	1	2	1	
		20,726		90		1,409		127		442				41			
Totals		23,760		94		1,512		129		443	115	63		42	2	1	26,161

HYDRANT STATEMENT

For the Year Ended December 31, 1913.

LOW SERVICE.

Month	No.	LOCATION	Dia.	Hyd.	Stops
Jan.	1	Southeast corner of Broad St. and Franklin St.	6″	1	1
	2	Northeast corner of Lafayette St. and Broad St.	6″	1	1
April	3	Southeast corner of Grant St. and Broad St.	6″	1	1
	4	Broad St., east side, between Eighth Ave. and Clay St.	6″	1	1
	5	Christie St., east side, between Ferry St. and Bonykamper Ave.	6″	1	1
	6	Northeast corner of Bonykamper Ave. and Christie St.	6″	1	1
	7	Northeast corner of Broad St. and Vanderpool St.	6″	1	1
	8	Northeast corner of King St. and Broad St.	6″	1	1
	9	Northeast corner of Emmet St. and Broad St.	6″	1	1
	10	Southeast corner of Thomas St. and Broad St.	6″	1	1
May	11	Grafton Ave., north side, between Washington Ave. and Summer Ave.	6″	1	1
	12	Southeast corner of Broad St. and Park Pl.	6″	1	1
	13	Southeast corner of Broad St. and Rector St.	6″	1	1
July	14	Plank Road, south side, opposite Blanchard St.	6″	1	1
	15	Plank Road, south side, east of Waverly and Passaic Branch of N. Y. Bay R. R.	6″	1	1
	16	Plank Road, south side, 900 ft. west of Passaic River	6″	1	1
	17	Peddie St., north side, 800 ft. east of Frelinghuysen Ave.	6″	1	1
Aug.	18	Plank Road, south side, 75 ft. west of Passaic River	6″	1	1

Month	No.	LOCATION	Dia.	Hyd.	Stops
	19	Northeast corner of Adams St. and Harper St.	6″	1	1
	20	Northeast corner of N. J. R. R. Ave. and Earl St.	6″	1	1
	21	Northeast corner of Alpine St. and N. J. R. R. Ave	6″	1	1
Sept.	22	Margaretta St., north side, 400 ft. east of Ave. L	6″	1	1
Oct.	23	Thomas St., north side, 350 ft. west of Adams St.	6″	1	1
	24	Hamburgh Pl., north side, 130 ft. east of Ave. L	6″	1	1
	25	Hamburgh Pl., north side, 470 ft. west of Central R. R.	6″	1	1
	26	Woodside Pl., west side, 500 ft. south of Arlington Ave.	4″	1	1
Nov.	27	Plane St., west side, 15 ft. south of Nichols Alley	6″	1	1
	28	Court St., north side, 140 ft. west of Broad St.	6″	1	1
Dec.	29	Northwestern corner of Warwick St. and Lang St.	6″	1	1

HIGH SERVICE.

Month	No.	LOCATION	Dia.	Hyd.	Stops
Feb.	30	North Twelfth St., west side, between Sixth Ave. and Seventh Ave	6″	1	1
	31	Keer Ave., north side, between Elizabeth Ave. and Bergen St.	4″	1	1
June	32	Crawford St., north side, between Washington St. and High St.	4″	1	1
	33	Pomona Ave., north side, between Clinton Pl. and Maple Ave	6″	1	1
	34	Vassar Ave., north side, between Clinton Pl. and Maple Ave	6″	1	1
July	35	Spruce St., north side, between Washington St. and High St.	4″	1	1
	36	Ridgewood Ave., west side, opposite Belmont Terrace	4″	1	1

Month	No.	LOCATION	Dia.	Hyd.	Stops
	37	Northwest corner of North Eleventh St. and Abington Ave	4″	1	1
Aug.	38	Northwest corner of Bergen St. and Hansbury Ave.	6″	1	1
	39	Northwest corner of Bergen St. and Keer Ave.	6″	1	1
	40	Northeast corner of Tremont Ave. and Cedar Ave.	4″	1	1
	41	Chelsea Ave., west side, north of Tremont Ave. at City Line	4″	1	1
	42	Lyons Ave., south side, opposite west side of Osborne Terrace	6″	1	1
	43	Northeast corner of Abington Ave. and Highland Ave.	4″	1	1
Sept.	44	Ridge St., west side, between First Ave. and Second Ave	4″	1	1
	45	Huntington Terrace, west side, between Hawthorne Ave. and Nye Ave	4″	1	1
	46	Huntington Terrace, west side, 200 ft. south of Nye Ave	4″	1	1
	47	Heller Parkway, south side, 260 ft. east of North Sixth St	4″	1	1
Nov.	48	Southeast corner of Springfield Ave. and Prince St.	6″	1	1
	40	Northwest corner of Plymouth St. and Isabella Ave.	4″	1	1
	50	Northwest corner of Howell Pl. and Vermont Ave.	4″	1	1
	51	Goldsmith Ave., north side, between Clinton Pl. and Maple Ave	6″	1	1
	52	Grand Ave., west side, between South Orange Ave. and Arsdale Pl	4″	1	1
	53	Southwest corner of Charlton St. and Springfield Ave.	6″	1	1
	54	Southwest corner of Boyd St. and Springfield Ave.	6″	1	1
	55	Southwest corner of Schley St. and Shaw Ave.	6″	1	1
	56	Schley St., west side, between Shaw Ave. and Lyons Ave	6″	1	1

Month	No.	LOCATION	Dia.	Hyd.	Stops
	57	Northwest corner of Schley St. and Lyons Ave.	4″	1	1
	58	Schley St., west side, between Nye Ave. and Bragaw Ave.	6″	1	1
Dec.	59	Ridge St., west side, between Second Ave. and Abington Ave	6″	1	1
	60	Ridge St., west side, 400 ft. south of Abington Ave.	6″	1	1
	61	Southwest corner of Ridge St. and Abington Ave.	6″	1	1
	62	Southwest corner of North Tenth St. and Delavan Ave	6″	1	1
	63	Weequahic Ave., north side, between Maple Ave. and Hedden St	6″	1	1
	64	Northwest corner of Schuyler Ave. and Nye Ave.	6″	1	1
	65	Northwest corner of Schuyler Ave. and Eckert Ave.	6″	1	1
	66	Southwest corner of Schuyler Ave. and Hawthorne Ave.	6″	1	1

HYDRANTS REPLACED DURING THE YEAR 1913.

LOW SERVICE.

Month	No.	LOCATION.	Dia.	Hyd.	Stops
Jan.	1	Northeast corner of Broad St. and Green St.	6″	1	1
	2	Southeast corner of Jefferson St. and Downing St.	4″	1	..
Feb.	3	Northwest corner of Broad St. and Gouverneur St.	4″	1	..
	4	Northwest corner of Front St. and Center St.	6″	1	1
	5	Southeast corner of Komorn St. and Main St.	6″	1	..
March	6	Southwest corner of Camp St. and Orchard St.	4″	1	..
	7	Gotthart St., west side, between New York Ave. and Elm Road	4″	1	..

Month	No.	LOCATION.	Dia.	Hyd.	Stops
April	8	Northeast corner of High St. and Orange Pl.	6″	1	..
	9	Southeast corner of Broad St. and Orange St.	6″	1	1
	10	Southwest corner of Oraton St. and Delavan Ave.	4″	1	..
	11	Broad St., west side, between Marshall St. and West Kinney St	6″	1	1
	12	Northeast corner of Murray St. and Broad St.	6″	1	1
	13	Northeast corner of Broad St. and Pennington St.	6″	1	1
	14	Northeast corner of Tichenor St. and Broad St.	6″	1	1
	15	Northeast corner of Broad St. and Parkhurst St.	6″	1	1
	16	Northeast corner of Broad St. and South St.	6″	1	1
June	17	Broad St., east side, opposite Cedar St.	6″	1	1
	18	Northeast corner of Broad St. and Commerce St.	6″	1	1
	19	Broad St., west side, 200 ft. south of Orange St.	6″	1	1
	20	Northwest corner of Lang St. and New York Ave.	4″	1	..
Aug.	21	Northeast corner of Adams St. and Parkhurst St.	6″	1	..
Sept.	22	Mechanic St., south side, 170 ft. west of Mulberry St.	6″	1	1
	23	Northwest corner of Jefferson St. and South St.	4″	1	..
Oct.	24	Hamburgh Pl., north side, 140 ft. west of Central R. R.	6″	1	1

HIGH SERVICE.

Month	No.	LOCATION	Dia.	Hyd.	Stops
Feb.	25	Alexander St., west side, 175 ft. north of Lindsley Ave	4″	1	1
March	26	Northeast corner of Fourth Ave. and Garside St.	4″	1	1
	27	Northwest corner of Littleton Ave. and Eleventh Ave.	4″	1	..
	28	Northeast corner of Third Ave. and Garside St.	4″	1	..
	29	Southwest corner of North Seventh St. and Fourth Ave.	4″	1	1
	30	Northwest corner of Sidney Pl. and Nelson Pl.	4″	1	..
April	31	Southwest corner of Warren St. and South Seventh St.	4″	1	..
	32	Southwest corner of Chadwick Ave. and Jeffrey Pl.	6″	1	..
May	33	Pine Grove Terrace, west side, 920 feet south of South Orange Ave.	4″	1	..
	34	South Fifteenth St., west side, 250 ft. south of Gould Ave.	4″	1	..
	35	Southeast corner of Bank St. and Wallace St.	4″	1	..
	36	South Eighth St., west side, between Eleventh and Twelfth Aves.	4″	1	..
	37	South Fifteenth St., west side, between Randolph Pl. and Hawthorne Ave.	6″	1	..
	38	Northwest corner of Hedden Terrace and Runyon St.	6″	1	..
June	39	Northeast corner of Lyons Ave. and Leslie St.	4″	1	..
	40	Southeast corner of Central Ave. and First St.	4″	1	..
	41	Northwest corner of Belmont Ave. and Rose St.	4″	1	1
	42	Belmont Ave., west side, between Rose St. and Avon Ave.	4″	1	..
	43	Northwest corner of Crawford St. and Washington St.	4″	1	1
	44	Northwest corner of Hunterdon St. and Lyons Ave.	6″	1	1

Month	No.	LOCATION.	Dia.	Hyd.	Stop
July	45	Northeast corner of Lanark Ave. and Vail St.	4″	1	..
	46	Hunterdon St., east side, between Seventeenth and Eighteenth Aves	6″	1	1
	47	Northeast corner of Hunterdon St. and Eighteenth Ave.	6″	1	1
Oct.	48	William St., north side, between High St. and West St.	6″	1	1
	49	Sandford Ave., east side, opposite Ivy St.	6″	1	1
	50	Northeast corner of Court St. and Lincoln St.	4″	1	..
Nov.	51	Northwest corner of Prince St. and Springfield Ave.	6″	1	1
	52	Northwest corner of Springfield Ave. and Rankin St.	6″	1	1
	53	Southwest corner of Ridge St. and Verona Ave.	4″	1	..
	54	Parker St., west side, between Sixth Ave. and Park Ave	4″	1	..
	55	Northwest corner of Bedford St. and Springfield Ave.	6″	1	1
	56	Southwest corner of Sayre St. and Springfield Ave.	6″	1	1
	57	Northwest corner of Howard St. and Springfield Ave.	6″	1	1
Dec.	58	Northwest corner of Bruce St. and Springfield Ave.	6″	1	1
	59	Northwest corner of Livingston St. and Seventeenth Ave.	6″	1	..
	60	Southwest corner of Isabella Ave. and South Orange Ave	4″	1	..
	61	Mt. Prospect Ave., west side, between Park Ave. and Sixth Ave	4″	1	1
	62	Southwest corner of South Fourteenth St. and Orange St.	4″	1	..
	63	Northeast corner of Taylor St. and Garside St.	4″	1	1
	64	Northwest corner of Taylor St. and Summer Ave.	4″	1	1

STATEMENT OF SERVICES REPAIRED DUE TO DESTRUCTION BY ELECTROLYSIS.

From January 1 to December 31, 1913.

No.	Date	STREET	Size of Pipe	Cost of Repair Including Paving	Remarks
1	Jan. 4	88 Bowery Street	5/8"	$ 7.00	
2	Jan. 4	115 Bowery Street	5/8"	8.99	
3	Jan. 24	48 Springfield Avenue	5/8"	10.97	
4	July 29	182 Pacific Street	5/8"	10.64	
		Total		$37.60	

STATEMENT OF SERVICES RENEWED DUE TO DESTRUCTION BY ELECTROLYSIS.

From January 1 to December 31, 1913.

No.	Date	STREET	Size of Pipe	Cost of Renewal Including Paving	Remarks
1	Jan. 24	95 Springfield Avenue	5/8"	$20.00	
2	Feb. 15	53 Belleville Avenue	5/8"	20.00	
3	Feb. 25	300 Central Avenue	5/8"	25.00	
4	Mar. 14	323 Mulberry Street	5/8"	25.00	
5	Mar. 25	823 Broad Street	5/8"	10.00	
6	Mar. 25	833 Broad Street	1"	20.00	
7	Mar. 25	837 Broad Street	5/8"	10.00	
8	Mar. 26	851 Broad Street	5/8"	10.00	
9	Mar. 26	853 Broad Street	5/8"	10.00	
10	Mar. 26	861 Broad Street	5/8"	10.00	
11	Mar. 26	863-865 Broad Street	5/8"	10.00	
12	Mar. 26	893 Broad Street	1"	20.00	
13	Mar. 26	895-897 Broad Street	1"	20.00	
14	April 3	955 Broad Street	1"	20.00	
15	April 3	967 Broad Street	1"	20.00	
16	April 7	793-795 Broad Street	1"	20.00	
17	April 12	919 Broad Street	5/8"	10.00	
18	April 12	923 Broad Street	5/8"	10.00	
19	April 12	925 Broad Street	5/8"	10.00	
20	April 17	1011 Broad Street	5/8"	10.00	
21	April 17	1015 Broad Street	5/8"	10.00	
22	May 17	603 Broad Street	5/8"	10.00	
23	May 27	183-185 Springfield Avenue	1"	30.00	
24	May 31	689 Broad Street	5/8"	10.00	
25	June 9	356 Belleville Avenue	5/8"	20.00	
26	June 24	502 Washington Street	5/8"	25.00	
27	June 25	347 Broad Street	1"	20.00	
28	June 25	361-363 Broad Street	5/8"	10.00	
29	June 25	365 Broad Street	5/8"	10.00	
30	June 25	367 Broad Street	1"	20.00	
31	June 25	385 Broad Street	5/8"	10.00	
32	June 25	407-409 Broad Street	5/8"	10.00	
33	June 25	421 Broad Street	5/8"	10.00	
34	June 25	423 Broad Street	5/8"	10.00	
35	June 25	429 Broad Street	5/8"	10.00	
36	June 25	441 Broad Street	5/8"	10.00	
37	June 25	447 Broad Street	5/8"	10.00	
38	June 25	453 Broad Street	5/8"	10.00	
39	June 25	455 Broad Street	5/8"	10.00	
40	June 25	497 Broad Street	5/8"	10.00	

No.	Date	STREET	Size of Pipe	Cost of Renewal Including Paving	Remarks
41	June 25	350 Broad Street	1″	20.00	
42	June 25	356 Broad Street	⅝″	10.00	
43	June 25	358 Broad Street	⅝″	10.00	
44	June 25	360 Broad Street	⅝″	10.00	
45	June 25	362 Broad Street	⅝″	10.00	
46	June 25	364 Broad Street	⅝″	10.00	
47	June 25	366 Broad Street	⅝″	10.00	
48	June 25	368–370 Broad Street	⅝″	10.00	
49	June 25	372 Broad Street	⅝″	10.00	
50	June 25	374 Broad Street	⅝″	10.00	
51	June 25	376 Broad Street	⅝″	10.00	
52	June 25	378 Broad Street	1″	10.00	
53	June 25	392 Broad Street	⅝″	10.00	
54	June 25	394 Broad Street	⅝″	10.00	
55	June 25	396 Broad Street	⅝″	10.00	
56	June 25	408 Broad Street	⅝″	10.00	
57	June 25	410–412 Broad Street	⅝″	10.00	
58	June 25	414 Broad Street	⅝″	10.00	
59	June 25	466 Broad Street	⅝″	10.00	
60	June 25	482 Broad Street	⅝″	10.00	
61	June 25	490 Broad Street	⅝″	10.00	
62	June 25	504–506 Broad Street	⅝″	10.00	
63	June 25	516 Broad Street	1″	10.00	
64	June 25	530–532 Broad Street	⅝″	10.00	
65	June 25	554 Broad Street	⅝″	10.00	
66	June 25	562–564 Broad Street	1″	20.00	
67	Aug. 5	648 Ferry Street	⅝″	20.00	
68	Aug. 28	205 Springfield Avenue	1″	10.00	
69	Sept. 11	15 Springfield Avenue	⅝″	10.00	
70	Sept. 12	31 Springfield Avenue	⅝″	10.00	
71	Sept. 12	33 Springfield Avenue	1″	20.00	
72	Sept. 12	48 Springfield Avenue	⅝″	10.00	
73	Sept. 16	104 Springfield Avenue	⅝″	10.00	
74	Sept. 16	106 Springfield Avenue	⅝″	10.00	
75	Sept. 16	108 Springfield Avenue	⅝″	10.00	
76	Sept. 16	110 Springfield Avenue	⅝″	10.00	
77	Sept. 16	112 Springfield Avenue	⅝″	10.00	
78	Sept. 17	114 Springfield Avenue	⅝″	10.00	
79	Sept. 17	128–130 Springfield Avenue	⅝″	10.00	
80	Sept. 17	134 Springfield Avenue	⅝″	10.00	
81	Sept. 23	97 Springfield Avenue	⅝″	10.00	
82	Sept. 23	105 Springfield Avenue	⅝″	10.00	
83	Sept. 23	109 Springfield Avenue	⅝″	10.00	
84	Sept. 24	111 Springfield Avenue	⅝″	10.00	
85	Sept. 24	137–139 Springfield Avenue	1″	20.00	
86	Sept. 24	141 Springfield Avenue	1″	20.00	
87	Sept. 24	95 Mercer Street	⅝″	10.00	

No.	Date	STREET	Size of Pipe	Cost of Renewal Including Paving	Remarks
88	Sept. 24	197 Springfield Avenue	5/8"	10.00	
89	Sept. 24	199 Springfield Avenue	5/8"	10.00	
90	Sept. 24	201 Springfield Avenue	5/8"	10.00	
91	Sept. 24	247 Springfield Avenue	5/8"	10.00	
92	Sept. 24	249 Springfield Avenue	5/8"	10.00	
93	Sept. 24	263 Springfield Avenue	5/8"	10.00	
94	Sept. 24	265-267 Springfield Avenue	5/8"	10.00	
95	Sept. 24	277 Springfield Avenue	1"	20.00	
96	Sept. 24	281 Springfield Avenue	5/8"	10.00	
97	Sept. 24	283 Springfield Avenue	5/8"	10.00	
98	Sept. 24	293 Springfield Avenue	5/8"	10.00	
99	Sept. 24	299 Springfield Avenue	5/8"	10.00	
100	Sept. 24	301 Springfield Avenue	5/8"	10.00	
101	Sept. 24	303 Springfield Avenue	5/8"	10.00	
102	Sept. 24	315 Springfield Avenue	5/8"	10.00	
103	Sept. 24	321 Springfield Avenue	5/8"	10.00	
104	Sept. 24	325-327 Springfield Avenue	5/8"	10.00	
105	Sept. 24	158 Springfield Avenue	5/8"	10.00	
106	Sept. 24	176 Springfield Avenue	5/8"	10.00	
107	Sept. 24	178 Springfield Avenue	5/8"	10.00	
108	Sept. 24	202 Springfield Avenue	5/8"	10.00	
109	Sept. 24	206-208 Springfield Avenue	5/8"	10.00	
110	Sept. 24	210-212 Springfield Avenue	5/8"	10.00	
111	Sept. 24	214-216 Springfield Avenue	5/8"	10.00	
112	Sept. 24	230 Springfield Avenue	5/8"	10.00	
113	Sept. 24	232 Springfield Avenue	5/8"	10.00	
114	Sept. 24	234 Springfield Avenue	5/8"	10.00	
115	Sept. 24	236 Springfield Avenue	5/8"	10.00	
116	Sept. 24	262 Springfield Avenue	5/8"	10.00	
117	Sept. 24	302 Springfield Avenue	5/8"	10.00	
118	Sept. 24	304 Springfield Avenue	5/8"	10.00	
119	Sept. 24	306 Springfield Avenue	5/8"	10.00	
120	Sept. 25	140-142 Springfield Avenue	1"	20.00	
121	Sept. 25	154 Springfield Avenue	5/8"	10.00	
122	Sept. 25	85 Springfield Avenue	5/8"	10.00	
123	Nov. 12	506 Washington Street	5/8"	25.00	
124	Nov. 14	458 Washington Street	5/8"	25.00	
		Total		$1,525.00	

STATEMENT OF BREAKS ON PIPES DUE TO DIFFERENT REASONS.

January 1st to December 31st, 1913.

MONTH	LOCATION	Remarks	Cost of Repair
February	Orchard Street, at Pennington Street	Old pipe	$20.66
March	Sayre Street, south of Springfield Avenue	Old pipe	72.96
June	Branch Brook Park, at Chester Avenue	Pit hole	46.90
"	Sussex Avenue, across Morris Canal	Cause unknown	33.46
"	Jefferson Street, north of Central Railroad bridge	Split pipe	37.27
July	Fifth Street, near Park Avenue	Pit hole	90.00
August	Woodside Avenue, north of Delavan Avenue	Pick hole	18.05
November	Abinger Place and Norwood Street	Split pipe	19.72
"	South Fourteenth Street and Ninth Avenue	Settling of conduit ditch	62.98
December	Broad Street, at West Park Street	Settling of sewer ditch	21.89
"	Lafayette Street, west of Mulberry Street	Old pipe	22.49
"	Lafayette Street, east of Broad Street	Old pipe	14.87
	Total		$461.25

DETAILED STATEMENTS

TO ACCOMPANY

Report of Engineer and Superintendent

DEPARTMENT OF WATER

(HIGH PRESSURE SYSTEM)

STATEMENT OF HIGH PRESSURE PIPE LAID IN 1913.

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet					Stops	Hydrants
		20″	16″	12″	8″	6″		
January	Morris Avenue, from South Orange Avenue to Bank Street	.....	.....	1,252	.....	.....	2	2
March	William Street, from Arlington Street to east side of High Street	.....	500	.....	.....	.....	.....	1
"	William Street, from west side of High Street to West Street	.....	721	.....	.....	.....	1	2
"	William Street, crossing west side of Broad Street	.....	.....	48	.....	.....	.....	.....
"	Branford Place, crossing west side of Broad Street	.....	.....	36	.....	.....	.....	.....
April	Shipman Street, from William Street to center of Court Street	.....	.....	861	.....	.....	1	2
"	Court Street, crossing west side of Broad Street	.....	.....	54	.....	.....	.....	.....
"	Broad Street, east side, from Orange Street to Clay Street	.....	1,576	.....	.....	.....	1	4
May	Green Street, crossing east side of Broad Street	.....	.....	100	.....	.....	.....	.....
"	Grant Street, from Broad Street to Spring Street	.....	.....	509	.....	.....	1	1
"	Lafayette Street, crossing east side of Broad Street	.....	.....	84	.....	.....	.....	.....
"	Commerce Street, crossing east side of Broad Street	.....	.....	84	.....	.....	.....	.....
June	Bank Street, crossing west side of Broad Street	.....	.....	.....	12	.....	.....	.....
"	New Street, crossing west side of Broad Street	.....	.....	54	.....	.....	.....	.....
"	Broad Street, west side, from dead end north of Central Avenue, to 80 ft. north of Lombardy Street	388	.....	.....	.....	.....	.....	1
"	Broad Street, west side, from Marshall Street to Chestnut Street	988	.....	.....	.....	.....	.....	1
"	Chestnut Street, crossing Broad Street	.....	108	.....	.....	.....	.....	1
"	Walnut Street, crossing Broad Street	.....	.....	84	.....	.....	.....	.....
"	Halsey Street, from dead end south of Market Street to 100 feet south of Branford Place	.....	.....	312	12	.....	.....	1
July	Bowery Street, from Chapel Street to Ferry Street	.....	204	29	.....	.....	1	1
"	Chapel Street, from Bowery Street north	.....	.....	61	.....	.....	1	.....

STATEMENT OF HIGH PRESSURE PIPE LAID IN 1913.—*Continued.*

MONTH 1913	LOCATION OF PIPE	Length in Lineal Feet					Stops	Hydrants
		20″	16″	12″	8″	6″		
	Carried forward	.....	.....	.....	.....	.....	.....	.....
	Brought forward	.....	.....	.....	.....	.....	.....	.....
July	Branford Place and Camfield Street, crossing Halsey Street	.....	.....	82	.....	.....	2	.....
August	Ferry Street, from Fillmore Street to St. Francis Street	.....	780	.....	.....	.....	.....	2
"	St. Francis Street, from Ferry Street to Kossuth Street	.....	.....	1,722	.....	.....	2	6
September	Mechanic Street, from dead end east of Broad St. east to Mulberry St.	.....	.....	497	.....	.....	1	1
"	St. Francis Street, crossing Kossuth Street	.....	.....	76	.....	.....	.....	.....
"	Bank Street, from Plane Street to Washington Street	.....	.....	400	.....	.....	.....	1
"	Mulberry Street, from Market Street to Mechanic Street	.....	.....	292	.....	.....	.....	1
"	William Street, from Washington Street to Arlington Street	.....	617	.....	.....	.....	1	2
"	Springfield Avenue, from West Street to 50 ft. west of Howard St.	.....	338	.....	.....	.....	.....	2
"	Plane Street, from William Street north	.....	.....	61	.....	.....	1	1
"	Ferry Street, east of Fillmore Street, connecting up 16″ High Pressure main	.....	17	.....	.....	.....	1	.....
"	Ferry Street, east of Fillmore Street, 6″ Blow-off	.....	.....	.....	.....	16	1	.....
"	Howard Street, from Springfield Avenue to South Orange Avenue	.....	465	.....	.....	.....	1	.....
"	Clinton Street, from dead end east of Beaver Street east	.....	.....	.....	120	.....	.....	.....
October	Sussex Avenue, from Fifth Street to First Street	.....	1,109	.....	.....	.....	1	4
"	First Street, from Sussex Avenue south	.....	140	.....	.....	.....	.....	.....
"	First Street, south of Sussex Avenue, 6″ Blow-off	.....	.....	.....	.....	22	1	.....
November	Essex Street, from Orange Street south	.....	.....	441	.....	.....	1	1
December	Court Street, west of Broad Street, connecting 12″ High Pressure to 36″ feeder	.....	.....	41	.....	.....	1	.....
"	Plane Street, crossing Morris Canal	.....	.....	124	.....	.....	.....	.....
	Totals	1,376	6,575	7,304	144	38	22	38

During the year 15,437 lineal feet of pipe have been laid in the City, of which

1,376 lineal feet of 20 inch diameter
6,575 " " " 16 " "
7,304 " " " 12 " "
144 " " " 8 " "
38 " " " 6 " "

} 15,437 lineal feet = 2 and 4877/5280 miles.

HIGH PRESSURE HYDRANT STATEMENT

For the Year Ending December 31, 1913.

Month	No.	LOCATION	Dia. Bot. Con.	Yrd.	Stops
Jan.	1	Southeast corner of Morris Ave. and Thirteenth Ave.	8″	1	1
	2	Southeast corner of Morris Ave. and Bank St.	8″	1	1
March	3	Southeast corner of William St. and Shipman St.	8″	1	1
	4	Southwest corner of William St. and High St.	8″	1	1
	5	William St., north side, between High St. and West St.	8″	1	1
April	6	Shipman St., west side, between William St. and Court St.	8″	1	1
	7	Shipman St., west side, center of Park in Court St.	8″	1	1
	8	Southeast corner of Broad St. and Clay St.	8″	1	1
	9	Broad St., east side, 50 ft. north of Division St.	8″	1	1
June	10	Broad St., west side, 80 ft. north of Lombardy St.	8″	1	1
	11	Northwest corner of Broad St. and West Kinney St.	8″	1	1
	12	Northeast corner of Chestnut St. and Broad St.	8″	1	1
	13	Halsey St., west side, north of Camfield St.	8″	1	1
July	14	Northeast corner of Broad St. and Grant St.	8″	1	1
	15	Northeast corner of Broad St. and Eighth Ave.	8″	1	1
	16	Southwest corner of Grant St. and Spring St.	8″	1	1
Aug.	17	St. Francis St., east side, between George St. and Komorn St.	8″	1	1
	18	Southwest corner of St. Francis St. and George St.	8″	1	1

Month	No	LOCATION	Dia. Bot. Con.	Yrd.	Stops
	19	Southwest corner of St. Francis St. and Komorn St.	8″	1	1
	20	Southeast corner of St. Francis St. and Ferry St.	8″	1	1
	21	St. Francis St., west side, between Komorn St. and Kossuth St.	8″	1	1
	22	Ferry St., north side, opposite east side of Magazine St.	8″	1	1
	23	Ferry St., north side, opposite east side of Main St.	8″	1	1
Sept.	24	Mechanic St., north side, 300 ft. west of Mulberry St.	8″	1	1
	25	Southwest corner of Bank St. and Washington St.	8″	1	1
	26	Northwest corner of Mulberry St. and Mechanic St.	8″	1	1
	27	Northwest corner of St. Francis St. and Kossuth St.	8″	1	1
	28	Southwest corner of William St. and Washington St.	8″	1	1
	29	Northwest corner of Plane St. and William St.	8″	1	1
	30	Northeast corner of William St. and Arlington St.	8″	1	1
	31	Southwest corner of William St. and West St.	8″	1	1
	32	Springfield Ave., south side, 50 ft. west of Howard St.	8″	1	1
Oct.	33	Southwest corner of Sussex Ave. and First St.	8″	1	1
	34	Northeast corner of Sussex Ave. and Second St.	8″	1	1
	35	Southeast corner of Sussex Ave. and Fourth St.	8″	1	1
	36	Southwest corner of Sussex Ave. and Fifth St.	8″	1	1
Nov.	37	Essex St., west side, between Orange St. and James St.	8″	1	1
		HYDRANTS REPLACED DURING THE YEAR 1913.			
July	1	Bowery St., from 110 feet west of junction to junction of Ferry St.	8″	1	1

Summary of Statistics of the Newark, N. J. Water Works for the Year Ending December 31, 1913

In form recommended by the New England Water Works Association.

GENERAL STATISTICS.

Population by census 1910.....347,000
Date of construction.....1889-1891
By whom owned.....City of Newark
Source of supply.....Pequannock River
Mode of supply.....Gravity

STATISTICS OF CONSUMPTION OF WATER.

Estimated total population at date (in the city)....395,000
Estimated population on lines of pipe (including Town of Belleville and a portion of Elizabeth)...420,000
Estimated population supplied.....420,000
Total consumption for the year....14,918.6 million gallons
Total consumption for the year in the city .....14,754.0 million gallons
Passed through meters in the city. 7,297.9 million gallons
Percentage of consumption metered..... 49.4%
Average daily consumption in the city...40.4 million gallons
Gallons per day to each inhabitant in the city.....102.0
Gallons per day to each consumer in the city.....102.0
Gallons per day to each tap in use in the city.....882
Cost of supplying water, per million gallons, figured on total maintenance.....$27.73
Total cost of supplying water, per million gallons figured on total maintenance plus sinking fund and interest on bonds.....$80.77

STATISTICS REGARDING DISTRIBUTION SYSTEMS.

MAINS.

Kind of pipe.....Cast Iron and Steel
Sizes, from.....4 inch to 60 inch
Extended.....34,330 feet during the year
Discontinued .....1,666 feet
Total now in use..... 404 4528/5280 miles
Length of pipe less than 4 inches in diameter.....None
Number of hydrants added during year.....66
Number of public hydrants now in use.....3,104
Number of stop gates added during the year.....90
Number of stop gates now in use.....5,725
Number of stop gates smaller than 4 inch.....None
Range of pressure on distributing mains.....25 to 75 lbs.
Range of pressure on high pressure system..100 to 160 lbs.

SERVICES.

Kind of pipe.....Lead and cast iron
Sizes.....⅝ inch and 1 inch
Extended .....31,241.5 ft.
Total now in use.....214.5 Miles
Number of service taps added during the year (⅝ inch and 1 inch diameter).....1,563
Number of service taps now in use (⅝ inch and 1 inch diameter) 45,802
Average length of service.....20 ft.
Average cost of service during year (⅝ in. diameter).$10.48
Average cost of service during year (1 in. diameter). $12.60
Number of meters added.....1,432
Revised list of meters now in use.....26,161
Percentage of services metered.....57.3%
Percentage of receipts from metered water.....73%

ANNUAL FINANCIAL REPORT

OF THE

DEPARTMENT OF WATER

TO THE

Board of Street and Water Commissioners

Newark, N. J.

For the Year Ended December 31, 1913

ANNUAL FINANCIAL REPORT

OF THE

WATER DEPARTMENT

TO THE

Board of Street and Water Commissioners
Newark, N. J.

For the Year Ending December 31, 1913

To the Board of Street and Water Commissioners, City of Newark, New Jersey:

GENTEMEN—I submit herewith financial report of the Department of Water for the fiscal year ending December 31, 1913, contained in the following statements:

Balance Sheet as at December 31, 1913.

Income Account for year ending December 31, 1913.

Exhibits containing detail supporting above statements.

The balance sheet and income account has already been submitted to you and certified to by Messrs. Price, Waterhouse & Co., Accountants, New York City, as authorized by a resolution of your Board. The detail exhibits supporting the balance sheet and income account are now rendered, prepared in conformity with the prescribed uniform system of accounts for water utilities as required by the State Board of Public Utility Commissioners contained in chapter 195 of the laws of 1911.

Heretofore the method of accounting and the annual report of the transactions of the Water Department have been entirely on a cash basis, as apart from the revenue basis required by the Board of Public Utility Commissioners.

The law creating the Board of Street and Water Commissioners requires a report of the cash receipts and expenditures for the year, and this statement is contained in Exhibit "B". In addition there is submitted a more comprehensive statement, the balance sheet showing the position of the Water Department at December 31, 1913, reflecting on the one hand all assets which have accrued and on the other hand all liabilities incurred. In the income account a similar condition is shown, viz: that all income for the year has been credited whether it has been collected or not and all expenses are charged whether paid or not.

As this is the first annual report containing more extensive detail of the reorganized accounting methods in the Department of Water, I offer the following explanations of the exhibits.

Fixed Capital $20,223,016.81.

Exhibit "A" reflects in detail the additions to Plant and Equipment during the year. The principal items being amounts expended in lands in the watershed $147,631.75, High Pressure System $94,720.77, General Distribution Mains $186,447.04. There is also shown the amount of Depreciation against each individual group at the beginning of the year and the amount accrued during the year of $104,187.82 charged against the earnings, making a total reserve at December 31, 1913, of $1,640,616.06. The net depreciated cost of the plant is $18,582,400.75. The depreciation accrued during the year is based on the unit rates set up by the City Engineer.

Cash Accounts $296,412.77.

This amount is in the hands of the City Treasurer in the general fund account of the City with the exception of Trust Funds contained therein in the amount of $11,885.52, and which amount has been verified by bank certificates.

Consumers' Accounts Receivable $163,446.22.

The amount represents the open accounts owing and collectible from consumers and includes all meter readings of water supplied to December 31, 1913.

Sinking Fund $5,555,533.16.

The investments are held and controlled by the Sinking Fund Commission and are in accordance with their printed report. The Exhibit "D" also includes the detail of several other amounts in the Balance Sheet, viz: the Funded Debt, Interest accrued, and is practically self-explanatory.

Reserves.

Exhibit "G" shows a detailed consolidation of the reserves of the Water Department at the beginning of the year, transactions during the year and balance at the close in agreement with the items on the Balance Sheet.

Income Account $99,182.00.

The net corporate income is shown in the detail form required by the Board of Public Utility Commissioners on Statement "B" and is supported by Exhibits "H", "I" and "J", which contain in detail further information.

It will be interesting to note that the metered properties using 6,897 million gallons yield over 70% of the total revenue as against 7,620 million gallons on unmetered prop-

erties yielding only 25% of the total revenue, the balance being miscellaneous revenue. The unmetered consumption is ascertained by deducting the known metered consumption from the total volume delivered. Included in this latter amount, however, is water used for flushing, fire extinguishment, etc. The average net revenue per million gallons is shown as $131.53 on metered properties against $42.96 on assessed properties. The general average on all classes of revenue is $85.88 per million gallons.

Exhibit "E" presents in detail the balance of the corporate deficit as of January 1, 1913, in the amount of $382,527.34, and by crediting the 1913 profit reduces this item to the balance sheet figure of $283,345.34 at December 31, 1913.

Accounting System.

The general procedure was revised and reorganized in conformity with the uniform system of accounts for water utilities required by the State Board of Public Utility Commissioners.

As a preliminary step in rearranging the accounting system special efforts were made to collect accounts outstanding for a long period.

On unpaid assessed charges for period 1891 to 1913 in amount of $8,654.62, collections were made of $6,790.30, reducing the open balance at January 1, 1914, to $1,864.32.

During the year 878 claims on metered properties were filed with the Adjustment Committee and allowances made in amount of $17,707.26. Each claim accompanied by a licensed plumbers' certificate was separately investigated, and when allowances were made, the Adjustment Committee kept within 50% of the excess, to which amount the Committee is limited by the Board.

Also 6,060 adjustments of assessed rates were made and allowances granted in the amount of $20,926.57 on account of vacancies, stables not in use, water off part of period, etc. The records of each claim are filed by number, location of property, and being indexed are available at short notice should the Board require same.

Incidental to the change in the accounting methods 62 new forms were designed and regular routine established to enable various divisions of the Department to maintain and concentrate a record of every financial transaction of the Department of Water.

The consumers' ledgers were rewritten and arranged by street and number, which facilitates the preparation and delivery of all bills to consumers within ten days after the first of each quarter.

Inspectors' reading cards were changed so that metered and assessed properties are inspected at the same time instead of alternating the inspections.

This method insures all properties being ultimately entered and charged on the records and affords a check against errors arising from loss of inspection blanks, tap tickets or omissions to report turning on water services.

In conformity with general custom in Public Service Utilities, all outside employees whose duties require access to consumers' premises are required to wear a uniform. The adoption of this rule has removed many difficulties formerly encountered in obtaining entry to premises and the absence of formal complaints would indicate greater confidence in the employees by the public.

Turning Off.

Your attention is directed to conditions often met with in turning off water supply to premises owned by non-residents on account of non-payment of bills. In such cases the hardship falls on the tenants, who, in many instances, have faithfully discharged their obligations to the owner. The enforcement of the turn-off rule in premises housing a large number of families increases the risk to life through sickness or fire. Another method of enforcing payment on such properties should be inaugurated and would undoubtedly find general approval, removing adverse criticism of the Department arising from enforcement of "turn-off rule."

Respectfully submitted,

DAVID HOLMES,
Chief Accountant.

BALANCE SHEET

Turning Off.

Your attention is directed to conditions often met with in turning off water supply to premises owned by non-residents on account of non-payment of bills. In such cases the hardship falls on the tenants, who, in many instances, have faithfully discharged their obligations to the owner. The enforcement of the turn-off rule in premises housing a large number of families increases the risk to life through sickness or fire. Another method of enforcing payment on such properties should be inaugurated and would undoubtedly find general approval, removing adverse criticism of the Department arising from enforcement of "turn-off rule."

Respectfully submitted,

DAVID HOLMES,
Chief Accountant.

BALANCE SHEET

DEPARTMENT OF WATER

NEWARK, N. J., DECEMBER 31, 1913

ASSETS

Capital Assets—		
Cost of Properties, including Land, Buildings, Equipment, etc.		$20,223,016.81
Equipment, Material and Supplies		106,054.20
Current Assets—		
Accounts Receivable—		
Metered Rates Uncollected	$ 96,718.67	
Unmetered Rates Uncollected	29,666.06	
Tapping Mains Uncollected	17,570.55	
Building Permits Uncollected	2,862.66	
Miscellaneous	604.75	
Service Accounts in hands of Comptroller for collection	16,023.53	
	$ 163,446.22	
Cash in General Funds	235,415.21	
Trust Funds	11,886.52	
Petty Cash	625.00	
		411,371.96
Special Funds—		
Watershed Extension Cash	$ 45,888.40	
Construction of Storage Reservoir Cash	2,598.64	
		48,487.04
Deferred Charges to Operations		557.04
Sinking Fund—		
November 30, 1913	$5,552,208.16	
November and December Warrants	3,325.00	
		5,555,533.16
Deficit on Operations—		
As at January 1, 1913	$ 374,031.34	
Add—		
Refund to Customers on Unmetered Accounts	76.26	
Damage suit—re Weidman Silk Dyeing Co., settled during the year, and pertaining to the period prior to Jan. 1, 1913	10,144.47	
Adjustment of Equipment Valuations	1,008.85	
	$ 385,260.92	
Deduct—Refund from Services	2,733.58	
	$ 382,527.34	
Deduct—Earnings from Operations during year, as per Statement B	99,182.00	
		283,345.34
		$26,628,365.54

LIABILITIES

Capital Liabilities—		
Bonded Indebtedness		$13,377,000.00
Current Liabilities—		
Accounts Payable	$ 18,180.28	
Consumers' Deposits	12,581.06	
Unpaid and Accrued Wages	6,948.45	
Interest Accrued on Bonds	129,333.33	
		167,043.12
Reserve—		
Depreciation	$1,640,616.06	
Casualty Insurance	1,174.51	
Judgments, etc.	31,567.36	
		1,673,357.93
Sinking Fund Reserve		5,555,533.16
Corporate Surplus—		
Arising from revaluation of Properties at December 31, 1910		5,855,431.33
		$26,628,365.54

COMPARATIVE BALANCE SHEET,
DEPARTMENT OF WATER, NEWARK, N. J.
December 31, 1913.

	Exhibit	1912	1913	Net Change During Year Increase Decrease
ASSETS—				
Fixed Capital	A	$19,803,174.76	$20,223,016.81	$419,842.05
Materials and Supplies	....	85,714.49	106,054.20	20,339.71
Cash	B	174,033.12	296,412.77	122,379.65
Consumers a/c Receivable	C	150,568.20	163,446.22	12,878.02
Sinking Funds	D	5,166,779.48	5,555,533.16	388,753.68
Prepayments	....	705.21	557.04	148.17
Other Suspense	....	259.79	.....	259.79
Corporate Deficit	E	374,031.34	283,345.34	90,686.00
		$25,755,266.39	$26,628,365.54	$873,099.15
LIABILITIES—				
Funded Debt	D	$13,102,000.00	$13,377,000.00	$275,000.00
Interest Accrued	D	126,008.33	129,333.33	3,325.00
Other Accrued Liabilities (Wages)	....	1,726.04	6,948.45	5,222.41
Consumers' Deposits	F	11,946.17	12,581.06	634.89
Other Accounts Payable	....	3,774.85	18,180.28	14,163.73
(Supplies)	....	241.70		
Sinking Fund Reserves	G	5,166,779.48	5,555,533.16	388,753.68
Accrued Amortization	G A	1,536,428.24	1,640,616.06	104,187.82
Casualty and Insurance Reserve	G	.....	1,174.51	1,174.51
Other Optional Reserves	G	25,930.25	31,567.36	5,637.11
Corporate Surplus	E	5,780,431.33	5,855,431.33	75,000.00
		$25,755,266.39	$26,628,365.54	$873,099.15

DEPARTMENT OF WATER, NEWARK, N. J.

INCOME ACCOUNT

December 31, 1913.

STATEMENT B

Increases
Decrease

ITEM (OR ACCOUNT) (a)	Ex-hibit	Amount Applicable to the Year: Items (b)	Amount Applicable to the Year: Totals (c)	Comparison With Preceding Year (d)
Water Operating Revenue	H		$1,281,849.93	$ 65,928.88
Water Operating Revenue Deductions	I		409,211.40	73,107.25
Water Operating Income	....		$ 872,638.53	$139,036.13
Other Operating Income	....			
Total Operating Income	....		$ 872,638.53	$139,036.13
Non-Operating Revenue—				
501 Rent from Lease of Plant	....			
502 Miscellaneous Rent Revenue	J	$ 3,726.25		$ 2,111.50
503(a) Interest from Investments	....			
503(b) Interest from other sources	....	986.03		625.34
504 Dividend Revenues	....			
505 Miscellaneous Non-Operating Revenues	....	4,614.49		426.49
Total Non-Operating Revenues	....		$ 9,326.77	$ 3,163.33
Non-Operating Revenue Deductions—				
506(a) Rent Expense	....	$ 109.77		109.77
506(b) Interest Expense	....			
506(c) Dividend Expense	....			
506(d) Miscellaneous Non-Operating Expense	....			
506(e) Non-Operating Taxes	....			
Total Non-Operating Revenue Deductions	....		109.77	
Non-Operating Income	....		$ 9,217.00	$ 3,053.56
Gross Corporate Income	....		$ 881,855.53	$142,089.69
Deductions from Income—				
511 Interest Accrued on Funded Debt	D	$521,684.16		$ 11,162.49
512 Other Interest Deductions	....			
513 Rent for Lease of other Plants	....			
514 Miscellaneous Rent Deductions	....			
515 Miscellaneous Deductions from Income— (Sinking Fund Payments)	....	260,989.37		14,316.37
516 Amortization Deductions	....			
Total Income Deductions	....		782,673.53	$ 25,478.86
Net Corporate Income	....		$ 99,182.00	$116,610.83

DEPARTMENT OF WATER, NEWARK, N. J.

CASH ACCOUNT. EXHIBIT B

Balance in Banks, January 1, 1913	$ 173,727.05	
Balance on hand	306.07	
		$ 174,033.12
RECEIPTS		
Operating Revenue Accounts—		
Metered, Private	$ 922,832.42	
Unmetered, Private	325,006.65	
Builders	9,948.17	
Hose	2,572.50	
Sprinklers	990.00	
Other Construction Work	833.40	
Tapping Mains ⅝" and 1"	16,994.92	
Miscellaneous Work—		
Meter Sales	23,453.50	
Meter Repairs	3,838.96	
Services 1½" and up	8,372.85	
Garage Services, Other Departments	6,889.77	
Town of Belleville	4,953.99	
Outside Contractors—		
Moving Mains, etc.	7,629.01	
Service Repairs—		
Material sold, etc.	6,153.24	
Service Arrears Comptroller	12,177.37	
Penalties	606.00	
Searches	4,433.00	
Rents	3,557.25	
Interest (all sources)	2,944.37	
Miscellaneous Petty Sales, Fines, etc.	181.49	
Miscellaneous Water Income	138.16	
Refunded Pay Checks	192.47	
Refunded Reservation Purchase	2,637.71	
Funded Debt (new bonds issued)	350,000.00	
	$1,717,277.20	
Less Petty Cash deposited as a Receipt to close out old account	306.07	
		$1,716,971.13
Trust Funds		18,464.40
		$1,909,468.65
DISBURSEMENTS		
Weekly Pay Roll	$ 347,167.40	
Semi-Monthly Pay Roll	87,156.12	
Sinking Fund	260,989.37	
Interest	520,317.50	
Accounts Payable	275,766.81	
Reservations	103,587.47	
Trust Funds	18,071.21	
		$1,613,055.88
Balance Dec. 31, 1913		$ 296,412.77

DEPARTMENT OF WATER, NEWARK, N. J.

CASH ACCOUNT.

EXHIBIT B—Continued

January 1, 1914, Balance as per Balance Sheet	
General Fund	$235,415.21
Watershed Extension Fund	45,888.40
Trust Funds	11,885.52
New Storage Reservoir	2,598.64
Petty Cash	625.00
	$296,412.77

ACCOUNTS RECEIVABLE.

December 31, 1913.

EXHIBIT G

Metered	$ 96,718.67
Unmetered	29,666.06
Tapping Mains over 1" (Personal)	6,277.20
Tapping Mains under 1" (Services)	11,293.35
Building	2,322.32
Construction (Special)	540.34
Comptroller	16,023.53
Trust Fund	435.75
Rents (Real Estate)	169.00
	$163,446.22

DEPARTMENT OF WATER, NEWARK, N. J.

EXHIBIT E

CORPORATE DEFICIT.

	ITEMS (a)	Debits (b)	Credits (c)
	Balance at beginning of year	$374,031.34	
527	Refund on unmetered accounts paid in error by consumer		
	Cyrus Currier	41.14	
	J. S. Isidor	35.12	
	Judgment to Weidman Silk Dyeing Co. on account of claim for damages	10,144.47	
	Adjustment of valuations on miscellaneous equipment correcting errors in inventory, Dec. 31, 1912	1,008.85	
522	Freight Refunded by Lehigh Valley Railroad Co.		$ 6.60
	Public Service Railway Co. for repairs to services damaged by electrolysis		305.48
	Public Service Railway Co. for renewal of services destroyed by electrolysis		2,421.50
	Net Corporate Income year 1913 (Profit)		99,182.00
	Balance at close of year 1913 (Deficit)		283,345.34
		$385,260.92	$385,260.92

CORPORATE SURPLUS.

Balance at beginning of year	$5,780,431.33
Bonds Matured and Paid through Sinking Fund—	
Vailsburg Water Bonds, issued October 1, 1898, Matured October 1, 1913	20,000.00
Newark Water Bonds, issued November 15, 1893, Matured November 15, 1913	55,000.00
Balance at close of year	$5,855,431.33

EXHIBIT F

DEPARTMENT OF WATER, NEWARK, N. J.

Consumers' Deposits, Dec. 31, 1913.

Duplicate Payments	$ 2,505.25
Construction	400.00
High Pressure	7,764.96
Reducers	480.00
Thawing Out	363.00
Interest	1,067.85
	$12,581.06

DEPARTMENT OF WATER, NEWARK, N. J.

RESERVES.

Schedule Showing Transactions of Year 1913.

EXHIBIT G

	Debits	Credits	Balance Sheet Dec. 31, 1913
Sinking Fund Reserve—			
(c) Balance at beginning of year		$5,166,779.48	
Add—			
Payments of Nov. and Dec., 1912		2,325.00	
Payments, Jan. to Dec., 1913		260,989.37	
Earnings, Jan. to Nov., 1913		200,439.31	
		$5,630,533.16	
Deduct Bonds Matured and Paid	$75,000.00	75,000.00	
Balance at close of year		$5,555,533.16	$5,555,533.16
Accrued Amortization—			
(e) Balance at beginning of year		$1,536,428.24	
Add—			
Accrued during year as per estimate of Engineer		104,187.82	
Balance at close of year		$1,640,616.06	1,640,616.06
Casualty Insurance Reserve—			
(h) Set up during year as reserve against accrued premium		$ 1,174.51	
Balance at close of year		$ 1,174.51	1,174.51
Other Optional Reserves—			
(i) Reserve for deductions on prepaid Water Bills (assessed)		$ 11,083.68	
Reserve for Doubtful Accounts		846.57	
Reserve for Uncollectible Accounts		7,500.00	
Reserve for Judgments		6,500.00	
Balance at beginning of year		$ 25,930.25	
Add—			
Reserve for depreciation on construction equipment		3,586.50	
Reserve for 1914 deductions on prepaid bills (assessed)		8,046.06	
Reserve for Doubtful Accounts		2,030.43	
		904.37	
Reserve for Judgments		3,000.00	
		$ 43,497.61	
Deduct—			
Deductions allowed on assessed bills 1912 period in year 1913	$11,083.68		
Doubtful accounts cancelled	846.57	11,930.25	
Balance at close of year		$ 31,567.36	31,567.36

DEPARTMENT OF WATER, NEWARK, N. J.

1913 OPERATING REVENUE.

EXHIBIT H

	Million Gallons Delivered Price	Total Gross During Year	Discounts and Abatements	Net Amount Credited to Revenue	Average Net Revenue per Million Gallons	% of Total Operating Revenue	% of Sale of Water
Metered	6,897.8	$1,059,717.38	$152,447.78	$ 907,269.60	$131.53	70.78	70.82
Unmetered	7,620.7	346,404.78	19,034.27	327,370.51	42.96	25.54	25.55
Service to Other Systems	164.6	14,584.11	Net	14,584.11	88.60	1.13	1.13
Municipal	235.5	17,538.90	Net	17,538.90	74.48	1.37	1.37
Miscellaneous Water Service	Unknown	14,404.39	28.33	14,376.06	.....	1.12	1.13
Total Sales of Water	14,918.6	$1,452,649.56	$171,510.38	$1,281,139.18	$ 85.88		
Miscellaneous Operating Revenue— Penalties	.....	.....	.....	710.75	.....	0.06	.....
Total Operating Revenue	.....	.....	.....	$1,281,849.93	.....	100.00	100.00

Unmetered consumption is the difference between metered consumption and total consumption as registered at reservoirs.

WATER SOLD TO OTHER COMPANIES.

	Million Gallons Delivered During Year	Total Gross Price	Discounts and Abatements	Net Amount Credited to Revenue	Average Net Revenue per Million Gallons
Elizabeth, N. J.	52.5	$ 7,445.20	$2,975.63	$ 4,469.57	$85.13
Belleville, N. J.	112.09	15,883.82	5,769.28	10,114.54	90.23
Totals	164.6	$23,329.02	$8,744.91	$14,584.11	$88.60

The above amounts are charged "net," and discounts are therefore eliminated in "Operating Revenue" Schedule.

DEPARTMENT OF WATER, NEWARK, N. J.

1913 OPERATING EXPENSES. **EXHIBIT I**

	ACCOUNT	Items	Totals
	1. WATER SUPPLY EXPENSES		
401	Collecting System Expenses—		
	(a) Water Purchased		
	(b) 1. Other Collecting System Expenses	$ 52,761.70	
	Total		$ 52,761.70
402	Purification System Expenses		
403	Pumping System Expenses		
	(a) Operating Labor		
	(b) Fuel		
	(c) Power Purchased		
	(d) Miscellaneous Supplies		
	Total		
404	Distribution Expenses		34,461.07
	Total Water Supply Expenses		$ 87,222.77
	2. MAINTENANCE EXPENSES		
405	Repairs of Water Collecting System		
406	Repairs of Purification System		
407	Repairs of Pumping System		
408	Repairs of Distribution System	$ 69,291.30	
409	General Repairs		
410	General Amortization	104,187.82	
	Total Maintenance Expenses		$173,479.12
	3. GENERAL AND MISCELLANEOUS EXPENSES		
411	Administration Expenses	$ 7,516.30	
412	Accounting and Commercial Expenses	90,711.21	
413	Business Promotion Expenses		
414	Legal Expenses	584.72	
415	Injuries and Damages	3,542.36	
416	Insurance	2,874.58	
417	Relief Department Pension		
418	Water Franchise Requirements		
419	Store and Stable Expenses	24,749.06	
420	Miscellaneous Adjustments		
421	General and Miscellaneous Expenses	1,972.08	
	Total General and Miscellaneous Expenses		131,950.31
	Total Operating Expenses		$392,652.20
422	Taxes	$ 10,523.77	
423	Uncollectible Water Bills	3,035.43	
424	Reserve for Judgments	3,000.00	
			16,559.20
	Total Revenue Deduction		$409,211.40

DEPARTMENT OF WATER, NEWARK, N. J.

RENTS RECEIVABLE—1913.

EXHIBIT J

DESCRIPTION OF PROPERTY	Location	Name of Lessee	Amount Cash Received	Amount Annual Rental
Use of Public Dock	Belleville, N. J.	Bruno & Petitti	$ 600.00	$ 600.00
First Cottage	Belleville, N. J.	William Becker	120.00	120.00
Second Cottage	Belleville, N. J.	William Deselowa	90.00	90.00
Half of Second Cottage	Belleville, N. J.	J. Roberts	10.00	10.00
First House	Belleville, N. J.	J. Crame	74.00	80.00
Second Rouse	Belleville, N. J.	T. W. Davis	80.00	136.00
Third House	Belleville, N. J.	George Stout	16.00	16.00
Fourth House	Belleville, N. J.	Peter Baseleon	80.00	96.00
Ferris Property	Belleville, N. J.	Charles Kuhlman	100.00	100.00
Ferris Property	Belleville, N. J.	W. McClelland	140.00	160.00
Part of Ivy Hill Tract	South Orange, N. J.	Henry E. Burr	40.00	40.00
Brown Tract, Ivy Hill Property	South Orange, N. J.	P. Dickinson	150.00	150.00
Utter Tract	Newfoundland, N. J.	C. Day	78.00	78.00
Utter Tract	Newfoundland, N. J.	W. S. Fuller	107.25	107.25
J. J. McConnell Tract	Newfoundland, N. J.	F. Hoagan	104.00	104.00
J. J. McConnell Tract	Newfoundland, N. J.	C. Post	104.00	104.00
J. J. McConnell Tract	Newfoundland, N. J.	F. Post	91.00	91.00
McConnell Tract	Newfoundland, N. J.	Junior Order of American Mechanics	10.00	10.00
Wise Store	Newfoundland, N. J.	A. La Roe	390.00	420.00
Monroe Howel Farm		J. H. Berresford	100.00	100.00
Part of Marion Tract	Near Echo Lake	C. A. Decker	10.00	10.00
One-sixth share rent Farber's Property	Vernon Township, Sussex Co.	E. Farber	25.00	50.00
Shooting and fishing on C. D. Day Property	Vernon Township, Sussex Co.	A. Forbes	20.00	20.00
Margarum Property	Vernon and Hardyston Townships, Sussex Co.	B. Henderson	100.00	100.00
Hopper Property	West Milford Township	H. Little	174.00	174.00
Weiss Farm	West Milford	E. R. Weiss	450.00	450.00
J. W. Kimble Tract	Stockholm	H. Norman		6.00
Utter Tract	Near Orean Park	A. Searles	54.00	54.00
Van Dine	Wanaque, N. J.	Mrs. S. Van Dine	240.00	256.00
			$3,557.25	$3,726.25

ANNUAL REPORT

OF THE

ENGINEERING DIVISION

Department of Streets and Highways.

ANNUAL REPORT

OF THE

Engineering Division, Department of Streets and Highways.

Mr. Morris R. Sherrerd, Chief Engineer.

DEAR SIR:—The following annual report of the Engineering Division of Streets and Highways for the year ended December 31st, 1913, is herewith presented, showing the street and highway improvements inaugurated and completed during the year, together with other work appertaining thereto. Owing to various causes, much of the paving work of 1913 was postponed until too late in the year to be completed. The work of repaving Broad Street took shape in the passage of a resolution to repave Wood Block from Belleville Avenue to Poinier Street. Residents on the lower end of Broad Street south of Lincoln Park objected so strenuously to the repaving proceedings that the veto by the Mayor of the award of the contract was not overruled by the Board. New proceedings were immediately started to repave the section between Belleville Avenue and South Street. A contract covering the repaving between those limits has been approved by the Board, in spite of the Mayor's objections thereto, so that by April, 1914, the long delayed work of putting a smooth, noiseless pavement on this street should be under way. A contract for the repaving of Springfield Avenue between Market Street and Morris Avenue, was also approved by the Board, and the work should be started promptly in the Spring. The long delayed repaving of High Street from Market Street to Clinton Avenue was practically completed late in the fall, and the

residents of that thoroughfare have a pavement they should feel proud of. The work of repaving Bowery Street with grouted granite was started too late in the season to be completed during 1913, but the entire length of the street south of the street railway tracks was paved by December 31st. The paving of Hawthorne Avenue, between Elizabeth Avenue and the City Line, with bitulithic pavement, was held up until late in the Autumn, until the Public Service Railway Company was allowed to proceed with the laying of double tracks and switches from Elizabeth Avenue to Clinton Place. The section of the street between Clinton Place and the City Line had been completed by October; the paving work on the easterly portion was prosecuted so vigorously that by the end of the year only a small area remained unfinished. The completion of the paving of this street must have given great satisfaction to property owners in the vicinity of the improvement, who had been subjected for several years to great annoyance and inconvenience, resulting from the almost dangerous condition of the highway before the paving work was started.

The ordinance opening Branford Place from Halsey Street to Springfield Avenue at an estimated cost of about one million dollars was passed by the Board during March, and the task of acquiring the necessary land by the City at a reasonable cost was undertaken by the Assessment Commission, so that the confirmation of the Final Award of Damages by the Circuit Court may confidently be looked for in the near future.

There were nineteen contracts awarded during 1912, not started that year, and entirely completed during 1913. There were seven contracts awarded during 1912, started during that year and finished in 1913; there were two contracts, High Street and Hawthorne Avenue, that were awarded during 1912, started during that year and almost

completed at the close of 1913; there was one contract, Market Street granite, awarded during 1911, virtually completed during 1912, all but the award of the Final Estimate, which was laid over until 1913.

These twenty-eight streets represented the following pavements:

	Lineal Feet	Miles	Square Yards	Final Estimate
Granite	5,032	0.593	20,518	$ 90,089.95
Brick	9,854	1.866	35,073	90,693.90
Bitulithic	18,685	3.539	66,804	163,908.74
Totals	33,571	6.358	122,395	$344,692.59

There were twenty-one contracts awarded during 1913 under Chapter 217 and twenty under Chapter 210, making a total of forty-one contracts. Of the number awarded under Chapter 217, twelve were completed, two were partly completed, and seven not started. Of the twenty contracts awarded under Chapter 210, eleven were completed, four were partly completed, and five were not started. The actual amount of work done during 1913 on work awarded during that year is given below.

CHAPTER 210.

	Lineal Feet	Miles	Square Yards	Final Estimate
Granite	3,705	0.702	11,033	$42,715.24
Brick	1,998	0.378	5,841	13,404.39
Napped Granite	410	0.078	1,622	4,302.15
Asphalt	1,466	0.277	5,148	13,384.41
Asphalt Block .	1,456	0.276	5,378	17,291.23
Totals	9,035	1.711	29,022	$91,097.42

CHAPTER 217.

	Lineal Feet	Miles	Square Yards	Final Estimate
Brick	1,916	0.363	7,046	$16,914.90
Asphalt	1,309	0.248	4,971	13,247.91
Asphalt Block..	317	0.060	984	3,486.57
Bitulithic	9,382	1.777	34,668	89,474.74
Totals	12,924	2.448	47,669	$123,124.12

Paved privately during the year:

Part of Mechanic St., wood block..	176	0.033	366	$ 1,583.97

The total paving work accomplished during 1913, including not only 1913 contracts but also contracts left over from 1911 and 1912, and private paving work, make a total mileage for the year as follows:

	Lineal Feet	Miles	Square Yards	Final Estimate
Granite	8,737	1.655	31,551	$132,805.19
Brick	13,768	2.607	47,960	121,013.19
Napped Granite	410	0.078	1,622	4,302.15
Asphalt	2,775	0.525	10,119	26,632.32
Asphalt Block..	1,773	0.336	6,362	20,777.80
Bitulithic	28,067	5.316	101,472	253,383.48
Wood Block...	176	0.033	366	1,583.97
Totals	55,706	10.550	199,452	$560,498.10

MILEAGE OF PAVEMENTS TO JANUARY 1, 1914.

	To Jan. 1 1913	Increase Miles	Decrease Miles	To Jan. 1 1914
Granite	67.892	1.655	0.093	69.454
Napped Granite	....	0.078	....	0.078
Asphalt	51.478	0.525	....	52.003
Brick	47.560	2.607	....	50.167
Telford	27.241	....	1.703	25.538
Bitulithic	20.701	5.316	....	26.017
Belgian Block	11.023	....	....	11.023
Cobble	2.595	....	0.725	1.870
Bituminous Concrete	0.886	....	....	0.886
Wood Block	0.475	0.033	....	0.508
Asphalt Block	0.359	0.336	....	0.695
Medina Sandstone Block	0.169	....	....	0.169
Bituminous Macadam	0.125	....	....	0.125
Warrenite	0.099	....	....	0.099
Totals	230.603	10.550	2.521	238.632

Net increase of pavements during 1913, 8.029 miles. About 67 miles of graded streets remained unpaved January 1, 1914.

In addition to these figures contracts were awarded during 1913 calling for the following amount of paving, none of which was started during 1913:

	Lineal Feet	Miles	Square Yards	Estimated Cost
Granite	5,950	1.127	18,900	$ 70,642.50
Brick	835	0.158	2,250	5,585.00
Napped Granite	1,420	0.269	3,900	11,607.50
Asphalt	470	0.089	1,600	4,106.00
Asphalt Block	1,230	0.233	4,100	13,099.00
Bitulithic	5,680	1.076	18,400	47,217.75
Totals	15,585	2.952	49,150	$152,257.75

The average cost of the various kinds of pavements for 1913 was as follows:

Granite on concrete, square yards laid during 1913, 31,551 square yards; yardage during 1912 was 74,235 square yards; bid price for 1913 per square yard was $3.16 and $3.03 for 1912. There were 47,960 square yards of brick pavement laid during 1913, as against a yardage of 59,818 square yards for 1912; the cost per square yard for 1913 was $2.21 and $2.08 for 1912. The cost of Bitulithic per square yard for 1913 was $2.15 for 101,472 square yards, and the cost for 1912 was $2.10½ for 105,492 square yards. The most of asphalt paving per square yard for 1913 was $2.13 for 10,119 square yards, with no yardage of any consequence to compare with for 1912. The average cost of asphalt block for 1913 was $2.78 for three-inch block, with a yardage of 6,362 square yards.

Alley paving during 1913 received only moderate consideration from the Board, but it must be remembered that nearly all public alleys located in the centre of the city are already paved, and alley paving in sections remote from the business centre is not especially popular with property owners. Four alleys were paved during the year, three with brick and one with grouted granite, a contract was also awarded for the paving of another alley with brick, but the actual work of paving was not started on account of the lateness of the season.

List of Alleys Paved During 1913.

	Material	Length	Sq. Yards	Cost
Coeyman St., from Mt. Prospect Ave. to Clifton Ave.	Brick	286	636	$2,095.38
Leonard Pl., from Plane St. easterly 188 ft.	Brick	192	254	869.20

	Material	Length	Sq. Yards	Cost
Merchant Pl., Merchant St., easterly 358 ft.....	Brick	360	828	2,329.10
Totals		838	1,718	$5,293.68
1. Unnamed alley, from No. 12th St. to No. No. 13th St.....	Granite	208	458	$1,700.32

Total lengths of alleys paved, 1,046 lin. ft.=0.20 miles.
Total cost of the work as per final estimate was $6,994.00.

REPAIRS TO BRICK PAVEMENTS.

It will be noticed on examination of the table of "Mileage of Paved Streets of Newark laid up to December 31, 1913," that the brick mileage nearly equals the asphalt mileage, the relative figures being 50.21 miles of brick and 52 miles of asphalt. The cost of asphalt repairs and resurfacing, under regular contracts, has been an exceedingly large sum, the figures from 1906 to 1913 inclusive amounting to $235,000. This large sum represents about 107,000 square yards of resurfacing and about 108,000 square yards of repairs. There have been no corresponding heavy repairs to brick streets since the construction of the first brick pavement in 1895. As the life of a brick pavement will not average over fifteen years, in most cities, and as there are at least one dozen pavements laid for a longer period than fifteen years, it is readily understood that considerable resurfacing is needed. Such streets as Roseville Avenue, Congress Street, Prospect Street and one block of Jefferson Street, might be mentioned. The pavement in the worst state of repair in the city is Mount Pleasant Avenue between Clay Street and Harvey Street, where the city has been involved in litigation with the contractor, the Barber Asphalt Paving Company, for ten years, and no assessment

has yet been collected from the property owners on the street. In nearly every instance mentioned, of brick streets in bad condition, the original paving material used had been fire clay block. This kind of brick has been eliminated from our construction work, all brick work for a number of years has been laid with Shale. Since the construction of these old brick streets our standard tests have been made infinitely more rigid, and our specifications have been very materially strengthened.

STREETS GRADED, CURBED AND FLAGGED, 1913.

Work started in 1912, completed in 1913:

Chester Avenue, Lyons Avenue, Second Avenue, South Twentieth Street; total length, 5,484 ft.=1.039 miles.

Total cost of above work during 1913, $39,588.51.

Work started in 1913, completed in 1913:

Abington Avenue, Niagara Street, First Avenue, North Tenth Street, Salem Street, South Thirteenth Street, Third Street, Woodside Avenue grading, curbing and flagging work, and Christie Street, Clifton Avenue and Ingraham Place, concrete sidewalks.

Total length of work completed during 1913, 8,695 ft.= 1.647 miles. Cost, $76,925.81.

Work awarded 1913, started but not completed during 1913:

Abinger Place, Fifteenth Avenue, Margaretta Street and McClellan Street.

The contract for the flagging of Grove Street from South Orange Avenue to the Newark-Irvington Line was not started.

Contract for Boylan Street grading, curbing and flagging was awarded in 1912, but has not yet been completed on account of swampy nature of the ground along the route.

Total length completed during 1913, 2,450 ft.=0.464 mile. Cost, $11,213.98.

Total length of grading, curbing and flagging done publicly by ordinance, 16,629 ft.=3.149 miles. Cost of same during 1913, $127,728.30.

During the year there were laid on the above mentioned streets 134,546 square feet of 5 ft. cement sidewalk and 8,904 square feet of concrete sidewalks 4 ft. in width, the average cost per square foot was 14 1/10 cents.

STREETS GRADED PRIVATELY.

		Length of Street Grade
1	Huntington Terrace, from Hawthorne Ave. to Renner Ave.	1,660 ft.
2	Schuyler Ave., from Hawthorne Ave. southerly	1,400 ft.
3	Wolcott Terrace, from Hawthorne Ave, southerly	1,180 ft.
4	Nye Ave., from Osborne Terrace westerly.	200 ft.
5	Eckert Ave., from Osborne Terrace to Maple Ave.	600 ft.
6	Maple Ave., from Hawthorne Ave. southerly	1,280 ft.
7	Ridgewood Ave., from Hawthorne Ave. southerly	540 ft.
8	Belmont Terrace, from Ridgewood Ave. easterly	228 ft.
9	Highland Ave., from Ballantine Parkway to Delavan Ave.	750 ft.
10	Ridge St., from Abington Ave. to Second Ave.	1,500 ft.
	Total length	9,338 ft.
		1.768 miles

The cost of grading, curbing and flagging the streets from numbers 1 to 6 inclusive, in the Nye Tract, was $9,222.00. The cost of the work on the last four streets has not been ascertained, not having been filed with the Board.

SUMMARY, GRADING, CURBING AND FLAGGING WORK, 1913.

Total length of grading, curbing and flagging work done by Ordinance, 1913.....	3.149 miles
Total length of grading, curbing and flagging work done privately, 1913.....	1.769 "
Total	4.917 "

MISCELLANEOUS SURVEYS.

In addition to the regular field and office work of this Department, the following surveys and maps were made for public departments not under the jurisdiction of the Board of Street and Water Commissioners:

1 City Hospital Survey and Map, Extension—Board of Health.

1 Survey and Map of Buildings at Newark City Home—Auditor of Accounts.

1 Large Map, including survey in ejectment suit of Mayor and Common Council of the City of Newark vs. The Pennsylvania Railroad Company, for encroachments on portions of New Jersey Railroad Avenue and Mechanic Street and Hay Alley—For the Legal Department.

MISCELLANEOUS.

ASPHALT REPAIRS AND RESURFACING.

Part of the work of renewal and repairing was done by the Standard Bitulithic Company. The price per square yard for renewal was $1.15 and for repairs $1.19.

Repairs and renewals were made on 54 asphalt streets.

The total amount of the above work is as follows:

5,803.44	sq. yds. resurfacing.....at	$1.15	$ 6,673.96
10,148.94	sq. yds. repairing.....at	1.19	12,077.24
78.33	cubic yds. concrete.....at	5.00	391.65
11	cubic yds. extra binder.....at	6.00	66.00
38	hours' labor .....at	.25	9.50
1	Foreman, 1 day.....		5.00
	Total		$12,223.35

This work was done under a one-year guarantee. On the above work any repairing over 200 square yards was figured as resurfacing.

During the year 1913 there were built under the supervision of the Engineer of the Department of Streets and Highways on paving and grading contracts the following basins and manholes:

PAVING CONTRACTS.

	Basins.	Manholes.
Adams Street	4	..
First Street	2	..
Dickerson Street	4	..
Fourth Street	1	..
Spruce Street	2	..
Crawford Street	2	4
Tyler Street	1	..
Woodside Place	1	..
Richelieu Terrace	2	..
Badger Avenue	4	..
Market Street	5	..
Elizabeth Avenue	3	..
St. Paul Avenue.....	4	2

Jefferson Street	1	..
South Twentieth Street	1	..
Parker Street	1	..
Randolph Place	2	..
	40	6

GRADING CONTRACTS.

Chester Avenue	2
Third Street	2
Niagara Street	5
First Avenue	1
	10

Total basins built under Street Department supervision 50

Total manholes built under Street Department supervision 6

The Public Service Railway Company made the following improvements to their tracks within the City limits during 1913:

NEW CONSTRUCTION—NEW FRANCHISES GRANTED DURING 1913.

Bergen Street, from Hawthorne Avenue to Renner Avenue, 3,601 lineal feet single track, 0.682 miles, seven inch Trilby rail, treated crossties; stone ballast, concrete foundation, new granite block paving.

Hawthorne Avenue, from Elizabeth Avenue to Wolcott Terrace; 10,723 lineal feet single track, 2.031 miles, seven inch Trilby rail, treated ties, stone ballast, new granite paving, concrete foundation.

North Twelfth Street, corner of Beardsley Avenue; loop off of Bloomfield Avenue; 581 lineal feet single track, 0.110 mile; seven inch Trilby rail; treated ties; stone ballast, granite block paving, concrete foundation.

South Nineteenth Street, south of South Orange Avenue; 686 feet single track, 0.130 mile, seven inch Trilby rail, treated ties, stone ballast, new granite block paving, concrete foundation.

RECONSTRUCTION—NEW MATERIAL ONLY USED.

Bridge Street, at Passaic River Bridge; 335 feet single track, 0.063 mile; seven inch Trilby rail, treated ties, stone ballast, wood block paving on bridge, new granite block paving west of Bridge, concrete foundation.

Mt. Prospect Avenue, from Bloomfield Avenue to Abington Avenue (southbound track), 3,273 feet single track, 0.620 mile, seven inch Trilby rail, treated ties, stone ballast, new granite block paving, concrete foundation.

Orange Street, from Broad Street to Newark Street, 5,982 feet single track, 1.133 miles; seven inch Trilby rail, treated ties, stone ballast, new granite block paving, concrete foundation.

Ferry Street (Plank Road), P. R. R. to Blanchard Street, 1,558 feet single track, 0.295 mile, 5 inch Trilby T rail for 1,108 feet and 9 inch Trilby rail for 450 feet, treated ties, stone ballast, 500 feet track paved with new granite block paving on concrete, 1,058 feet of track no paving, no concrete foundation.

Clay Street, at Passaic River Bridge, 450 feet single track, 0.085 mile, seven inch Trilby rail, treated ties (except on Bridge), stone ballast (except on Bridge), wood block paving on Bridge, granite block paving west of Bridge, concrete foundation.

RECONSTRUCTION—NEW PAVING, OLD TIES, ETC.

South Twentieth Street at Sixteenth Avenue, 179 lineal feet, 0.034 mile, same seven inch Trilby rail used, same ties, same stone ballast, new granite block paving on new concrete.

Broad Street, from Bridge Street to Central Avenue, 1,964 feet single track, 0.372 mile, new seven inch Trilby rail, same ties used, old roadbed, new granite blocks used.

RECONSTRUCTION WORK—OLD BLOCKS RECLIPPED, ETC.

Eighteenth Avenue, from Belmont Avenue to South Tenth Street, 7,233 feet single track, 1.370 miles, the same nine inch rail used, the same ties, same roadbed, repaved with old reclipped granite block paving.

South Orange Avenue at South Nineteenth Street, 1,193 feet single track, 0.226 miles, the same nine inch tram rail, same ties, stone ballast, old granite blocks reclipped, new concrete foundation.

Tyler Street, from Warwick Street to Elm Street, 470 lineal feet single track, 0.089 mile, same nine inch tram rail, new treated ties stone ballast, repaved with reclippd granite block paving on new concrete foundation.

SUMMARY.

	Single track Miles.
New franchises, entirely new construction.....	2.953
Reconstruction work, only new material used....	1.995
Reconstruction work, new paving, otherwise mostly old material.....	0.406
Reconstruction work, old reclipped blocks used...	1.685
Total	7.039

LABORATORY REPORT

Mr. Wm. A. Howell, Engineer, Department of Streets and Highways.

Dear Sir:—The work done in the Laboratory for your Department during the year 1913 consisted of the analysis and testing of the following materials:

Paving Brick, consisting of the following brands—

	Sets of Samples.	Blocks.
Corning	20	200
McAvoy	16	160
Shawmut	8	80
Bessemer	6	60
Saxton	2	20
Jamestown	2	20
Paxton	1	10
Totals	55	550

PORTLAND CEMENT.

Brand	No. of Tests	Average for 1-day Test	Average for 7-day Test	Average for 7-day test, 1 to 3 sand used on work	No. of Briquettes
Bath	17	389	703	204	264
Dexter	6	340	700	209	96
Alpha	5	337	683	180	80
Vulcanite	4	262	662	152	48
Nazareth	3	410	742	236	32
Whitehall	3	343	647	204	40
Giant	3	350	714	240	40
Lehigh	2	370	759	186	32
Pennsylvania	2	367	771	168	40
Edison	2	244	608	174	24
Phoenix	1	328	707	. .	8
Atlas	1	397	742	..	8
					712

MISCELLANEOUS.

Asphaltic Cement	6	sets	of	samples
Refined Asphalt	5	"	"	"
Asphalt Paving Mixture	7	"	"	"
Asphalt Flux	6	"	"	"
Sand	6	"	"	"
Lime, Stone, Granite and Quartz Dust	6	"	"	"
Wood Block	6	"	"	"
Wood Block Preservative	1	"	"	"
Asphalt Block	5	"	"	"
Crushed Trap Rock	3	"	"	"
Bitulithic Paving Mixture	7	"	"	"
Bituminous Filler	5	"	"	"
	63	"	"	"

In addition to the above 112 samples of paving material and automobile oils were examined for the Department of Street Repairs and reported to Mr. James C. Hallock.

Respectfully submitted,

JUSTUS GOSLAU,
Chemist.

The official staff of the Department, changed very slightly during the year 1913, is as follows:

Charles A. Stilger.....Principal Assistant Engineer
Walter W. Kane.....Engineer of Construction
Arthur H. Bradley.....First Assistant Engineer
David M. Crabb.....Assistant Engineer
James W. Alden.....Assistant Engineer
George C. Brandley.....Principal Office Assistant
Justus Goslau, M. D.....Chemist
William G. Dassing.....Stenographer
Clifford L. Landmesser.....Transitman
Patrick J. Boyle.....Rodman
William J. Gregory.....Rodman
Jacob Jacquin.....Helper

Mr. Charles Puff, Jr., City Planning Engineer, left the service on January 1, 1913, to take up similar work in the City of Philadelphia. Walter C. Brown, rodman, resigned May 1, 1913. Messrs. Brandley and Dassing continue to officiate in both Street and Sewer Departments. The writer desires to assure the various members of the Field and Office Staff of his appreciation of their faithful and intelligent co-operation in the successful handling of the many difficult problems of the year.

Respectfully submitted,

WILLIAM A. HOWELL,
Engineer, Streets and Highways.

COST OF INSPECTION, STREET PAVING

NAME OF STREET	Pavement	Square Yards	Final Estimate	Cost
New York Avenue	Bit. (brick gutters)	2,077	$ 4,822.24	$116.00
Leslie Street	Bit. (brick gutters)	6,929	15,242.55	104.00
So. Nineteenth St.	Bit. (brick gutters)	9,302	24,544.15	168.00
Richelieu Terrace	Bit. (brick gutters)	4,271	12,118.35	134.00
Elizabeth Avenue	Bit. (brick gutters)	29,777	67,005.75	676.00
Newark Street	Bit. (brick gutters)	6,416	17,254.99	192.00
Alpine Street	Bit. (brick gutters)	966	2,511.14	48.00
St. Paul Avenue	Bit. (brick gutters)	3,669	10,750.25	252.00
Jefferson Street	Bit. (brick gutters)	2,847	7,630.12	148.00
Dewey Street	Bitulithic	6,935	19,507.20	164.00
Birks Place	Bitulithic	1,059	3,029.10	40.00
So. Twentieth St.	Bitulithic	11,664	28,540.82	324.00
Schalk Street	Bitulithic	3,016	8,130.85	82.00
Alexander Street	Bitulithic	3,587	10,036.65	128.00
Leonard Place	Brick	254	869.20	32.00
Badger Avenue	Brick	4,558	11,929.79	356.00 + 40.00 = 316.00
Runyon Street	Brick	11,022	25,386.28	264.00
First Avenue	Brick	2,383	6,431.22	76.00
First Street	Brick	3,758	10,102.61	224.00
Ashland Street	Brick	1,745	4,847.90	96.00
Merchant Place	Brick	828	2,329.10	76.00
Fourth Street	Brick	2,718	7,765.58	186.00
Coeyman Street	Brick	636	2,095.38	86.00 + 26.00 = 60.00
Jeffrey Place	Brick	730	1,981.35	60.00
Wainwright Street	Brick	9,062	21,732.25	468.00
Woodside Avenue	Brick	3,024	7,557.23	192.00
Woodside Place	Brick	3,341	8,323.14	180.00
Gold Street	Brick	1,209	3,304.59	86.00
Randolph Place	Brick	2,072	5,076.32	94.00
Parker Street	Asphalt	3,580	9,437.30	92.00
Harvey Street	Asphalt	1,064	2,560.44	60.00
Howell Place	Asphalt	936	2,593.53	34.00
Noll Place	Asphalt	1,391	3,810.61	58.00
Hecker Street	Asphalt	1,448	3,890.97	36.00
Halsey Street	Asphalt Block	984	3,486.57	74.00

COST OF INSPECTION, STREET PAVING—*Continued*

NAME OF STREET	Pavement	Square Yards	Final Estimate	Cost
Patterson Street	Asphalt Block	2,087	7,212.08	80.00
No. Twelfth Street	Asphalt Block	3,291	10,079.15	100.00
Market Street	Granite	12,982	49,678.29	856.00
Tyler Street	Granite	5,934	21,886.77	368.00
Adams Street	Granite	3,757	13,915.38	368.00
Dickerson Street	Granite	5,980	21,672.15	300.00
Bonykamper Ave	Granite	2,867	10,284.53	128.00
Spruce Street	Granite	2,965	10,966.75	148.00
Christie Street	Granite	3,763	14,110.66	152.00
Bank Street	Granite	2,201	8,796.34	176.00
Crawford Street	Granite	2,411	9,501.11	182.00 40.00 142.00
Meeker Avenue	Granite (reclipped)	1,622	4,302.15	284.00
Runyon Street	Granite	2,517	8,066.17	128.00
Unnamed alley	Granite	458	1,700.32	68.00
		202,093	$568,807.37	$8,638.00

Inspection per yard, .0427.
Inspection per cent.. .0152.

CONTRACTS PARTLY COMPLETED.

	STREET	From	To	Material	Chapter	Paid Out During 1913
1	Alpine Street	Elizabeth Avenue	Johnson Avenue	Granite	210	$ 472.50
2	Bowery Street	Market Street	Ferry Street	Granite	210	11,278.22
3	Plymouth Street	Munn Avenue	West End Avenue	Asphalt	210	4,339.37
4	Schley Street	Hawthorne Avenue	Lyons Avenue	Brick	210	5,081.25
			Totals Under Chapter		210	$ 21,171.44
1	Hawthorne Avenue	Elizabeth Avenue	City Line	Bitulithic	217	$ 36,000.00
2	High Street	Market Street	Clinton Avenue	Bitulithic	217	31,959.52
3	Rose Terrace	Chadwick Avenue	South Tenth Street	Bitulithic	217	12,600.00
4	South Fifteenth Street	Clinton Avenue	Hawthorne Avenue	Brick	217	2,300.00
			Totals Under Chapter		217	$ 82,859.52
				GRAND TOTALS..		$104,030.96

TOTAL WORK DONE DURING 1913.

Under Chapter	Contracts	Complete Final Estimate	Under Chapter	Contracts	Uncompleted, Amount Paid	Contracts	Total Amount Paid
210	27	$232,401.75	210	4	$ 21,171.44	(210) 31	$252,573.19
217	22	222,481.62	217	4	82,859.52	(217) 26	305,341.14
Totals.....	49	$454,883.37		8	$104,030.96	57	$558,914.33

SUMMARY.

Public Work (57 Contracts).....	$558,914.33
Private Work (1 Contract).....	1,583.97
GRAND TOTAL.....	$560,498.30

APPROXIMATE ESTIMATE OF VALUE OF PAVED STREETS.

Newark, January 1, 1914.

PAVEMENT	Miles	Square Yards	Total Cost	Per Cent. Depreciation	Amount of Depreciation	Balance
Sheet Asphalt	52.004	1,097,016	$ 2,853,362.93	30	$ 856,008.88	$ 1,997,354.05
Brick	49.947	1,034,845	2,573,094.79	20	514,618.96	2,058,475.83
Granite on Sand	35.564	754,408	2,100,000.00	25	525,000.00	1,575,000.00
Granite on Concrete	33.677	684,734	2,456,332.01	10	245,633.20	2,210,698.81
Napped Granite on Concrete	.077	1,622	4,302.15	1	43.02	4,259.13
Telford and Macadam	25.577	555,125	920,000.00	45	414,000.00	506,000.00
Bitulithic	26.017	524,135	1,395,796.31	15	209,369.45	1,186,426.86
Belgian Block	11.023	235,903	534,109.50	30	160,232.85	373,876.65
Cobble	1.872	51,221	76,831.50	80	61,465.20	15,366.30
Bituminous Concrete	.886	15,010	43,424.76	20	8,684.95	34,739.81
Wood Block	.508	6,162	25,755.76	10	2,575.58	23,180.18
Asphalt Block	.694	12,414	43,257.63	5	2,162.88	41,094.75
Medina Sandstone Block	.169	4,481	17,523.29	10	1,752.33	15,770.96
Bituminous Macadam	.125	3,088	7,829.06	20	1,565.81	6,263.25
Warrenite	.099	2,439	5,864.27	5	293.21	5,571.06
Totals	238.239	4,982,603	$13,057,483.96	23	$3,003,406.32	$10,054,077.64
65.95 Miles of Streets Graded, Curbed and Flagged			1,941,000.00	20	388,200.00	1,552,800.00
223.4 Miles of Streets Flagged on both sides			1,781,500.00	25	445,375.00	1,336,125.00
Grand Totals			$16,779,983.96		$3,836,981.32	$12,943,002.64

PAVED STREETS UNDER GUARANTEE, JANUARY 1, 1914

STREET NAME	LOCATION From	To	Nature of Improvement	Expiration of Guarantee	Contractor
Merchant St.	Ferry St.	Clover St.	Bitulithic	June 28, 1914	Standard Bitulithic Co.
Warwick St.	Pacific St.	Adams St.	Bitulithic	June 28, 1914	Standard Bitulithic Co.
Fourth Ave.	North Eleventh St.	City Line	Asphalt	June 28, 1914	Standard Bitulithic Co.
Chapel Court	William St.	Pear St.	Brick	July 26, 1914	J. F. Shanley Co.
Nichols Alley	Plane St.	Arlington St.	Brick	July 26, 1914	J. F. Shanley Co.
New York Ave.	Van Buren St.	Garrison St.	Bitulithic	July 26, 1914	Standard Bitulithic Co.
Garrison St.	Hamburg Pl.	Elm Road	Bitulithic	July 26, 1914	Standard Bitulithic Co.
Nevada St.	Court St.	160 ft. south of Marshall St.	Brick	July 26, 1914	Jersey Paving Corporation
Shipman St.	Springfield Ave.	William St.	Brick	July 26, 1914	Newark Paving Co.
Pearl St.	Chapel Court	Washington St.	Brick	July 26, 1914	Newark Paving Co.
Fillmore St.	Market St.	Ferry St.	Brick	Aug. 30, 1914	J. F. Shanley Co.
Nicholson St.	William St.	Augusta St.	Brick	Aug. 30, 1914	J. F. Shanley Co.
Comes Alley	Bank St.	Academy St.	Brick	Aug. 30, 1914	J. F. Shanley Co.
South Fourteenth St.	Central Ave.	Orange St.	Wood	Aug. 30, 1914	Newark Paving Co.
Camfield St.	Halsey St.	Washingon St.	Brick	Aug. 30, 1914	Newark Paving Co.
Hill St.	Broad St.	Washington St.	Brick	Aug. 30, 1914	Newark Paving Co.
Augusta St.	Plane St.	Shipman St.	Granite on Concrete	Sept. 27, 1914	J. F. Shanley Co.
Parker St.	Bloomfield Ave.	Second Ave.	Brick	Sept. 27, 1914	Jersey Paving Corporation
Mt. Prospect Ave.	Elwood Ave.	Verona Ave.	Brick	Sept. 27, 1914	Jersey Paving Corporation
Pierce St.	Springfield Ave.	South Fourteenth St.	Brick	Sept. 27, 1914	Newark Paving Co.
Rector St.	Broad St.	Front St.	Bitulithic	Oct. 25, 1914	J. F. Shanley Co.
Nichols St.	Jefferson St.	Adams St.	Bitulithic	Oct. 25, 1914	J. F. Shanley Co.
Delavan Ave.	Lincoln Ave.	Seabury St.	Brick	Oct. 25, 1914	Jersey Paving Corporation
Jelliff Ave.	Runyon St.	Watson Ave.	Brick	Oct. 25, 1914	Newark Paving Co.
Willow St.	Washington St.	Plane St.	Brick	Oct. 25, 1914	Newark Paving Co.

PAVED STREETS UNDER GUARANTEE, JANUARY 1, 1914—*Continued.*

STREET NAME	LOCATION From	To	Nature of Improvement	Expiration of Guarantee	Contractor
Mercer Court	Mercer St.—	Court St.	Brick	Oct. 25, 1914	Newark Paving Co.
W. Kinney Pl.	West Kinney St.—	southerly 300 ft.	Brick	Oct. 25, 1914	Newark Paving Co.
Arlington St.	Market St.—	Court St.	Granite on Concrete	Nov. 28, 1914	J. F. Shanley Co.
Peshine Ave.	Hawthorne Ave.—	Renner Ave.	Brick	Nov. 28, 1914	Jersey Paving Corporation
Prospect St.	Market St.—	Ferry St.	Granite on Concrete	Nov. 28, 1914	Newark Paving Co.
Nutria St.	School House Alley—	easterly 185 ft.	Brick	Nov. 28, 1914	Newark Paving Co.
Durand St.	Mulberry St.—	Cherry St.	Brick	Nov. 28, 1914	Newark Paving Co.
Pine St.	North Canal St.—	Park St.	Brick	Nov. 28, 1914	Newark Paving Co.
Boudinot St.	Mulberry St.—	Pine St.	Brick	Nov. 28, 1914	Newark Paving Co.
Brinsmaid Pl.	Hawkins St.—	Brill St.	Bitulithic	Dec. 27, 1914	Standard Bitulithic Co.
Bigelow St.	Bergen St.—	Seymour Ave.	Brick	Dec. 27, 1914	Newark Paving Co.
Highland St.	Fairmount Ave.—	Magnolia St.	Brick	Dec. 27, 1914	Newark Paving Co.
Division St.	Ogden St.—	Spring St.	Granite on Concrete	Dec. 27, 1914	Van Keuren & Son
Cross St.	Ogden St.—	Spring St.	Granite on Concrete	Dec. 27, 1914	Van Keuren & Son
Ballantine Parkway	Mt. Prospect Ave.—	Clifton Ave.	Brick*	Sept. 4, 1914	P. & P. Jannarone
Treacy Ave.	Avon Ave.—	Rose Terrace	Telford*	Nov. 17, 1914	Newark Paving Co.
Shanley Ave.	Avon Ave.—	Rose Terrace	Telford*	Nov. 17, 1914	Newark Paving Co.
Ridge St.	Ballantine Parkway—	Berkeley Ave.	Telford*	Nov. 26, 1914	P. & P. Jannarone
Ridge St.	Ballantine Parkway—	Delavan Ave.	Telford*	Nov. 26, 1914	P. & P. Jannarone
Christie St.	Passaic Ave.—	Ferry St.	Granite on Concrete	Mar. 28, 1915	J. F. Shanley Co.
Main St.	Ferry St.—	Kossuth St.	Granite on Concrete	May 30, 1915	J. F. Shanley Co.
Hunterdon St.	Bigelow St.—	Renner Ave.	Brick	May 30, 1915	Jersey Paving Corporation
North Twelfth St.	Park Ave.—	Springdale Ave.	Brick	May 30, 1915	Newark Paving Co.
Orange Pl.	Orange St.—	High St.	Granite on Concrete	May 30, 1915	J. F. Shanley Co.
Division Pl.	Park St.—	Centre St.	Granite on Concrete	May 30, 1915	J. F. Shanley Co.

PAVED STREETS UNDER GUARANTEE, JANUARY 1, 1914—*Continued.*

STREET NAME	LOCATION From	To	Nature of Improvement	Expiration of Guarantee	Contractor
Thomas St.	Mulberry St.—	Dawson St.	Granite on Concrete	July 25, 1915	J. F. Shanley Co.
Fifteenth Ave.	So. Tenth St.—	So. Nineteenth St.	Granite on Concrete	July 25, 1915	Newark Paving Co.
Watson Ave.	Jelliff Ave.—	Bergen St.	Brick	July 25, 1915	Newark Paving Co.
Johnson Ave.	Hawthorne Ave.—	Watson Ave.	Brick	July 25, 1915	Newark Paving Co.
Rose St.	Kipp St.—	Eighteenth ave.	Brick	Aug. 29, 1915	Newark Paving Co.
Runyon St.	Osborne Terrace—	Clinton Pl.	Brick	Aug. 29, 1915	Newark Paving Co.
North Seventh St.	Bloomfield Ave.—	Chester Ave.	Brick	Aug. 29, 1915	Jersey Paving Corporation
Plum St.	Washington St.—	Plane St.	Brick	Aug. 29, 1915	Jersey Paving Corporation
D'Auria St.	Summer Ave.—	Sheffield St.	Brick	Aug. 29, 1915	Van Keuren & Son
South Canal St.	Mulberry St.—	River St.	Granite on Concrete	Sept. 26, 1915	Jersey Paving Corporation
South Sixteenth St.	Clinton Ave.—	Avon Ave.	Brick	Sept. 26, 1915	Newark Paving Co.
May St.	Lincoln Ave.—	Summer Ave.	Brick	Sept. 26, 1915	Newark Paving Co.
Delavan Ave.	Lincoln Ave.—	Summer Ave.	Brick	Sept. 26, 1915	Jersey Paving Corporation
North Sixth St.	Bloomfield Ave.—	Heller Parkway	Brick	Sept. 26, 1915	Jersey Paving Corporation
East Kinney Pl.	E. Kinney St.—	northerly	Brick	Oct. 31, 1915	Jersey Paving Corporation
Pierson's Alley	Market St.—	Bank St.	Brick	Oct. 31, 1915	Jersey Paving Corporation
Barkeley Ave.	Mt. Prospect Ave.—	Lake St.	Brick	Oct. 31, 1915	Jersey Paving Corporation
Rose St.	Bergen St.—	Kipp St.	Granite on Concrete	Oct. 31, 1915	J. F. Shanley Co.
Watson Ave.	Elizabeth Ave.—	Jelliff Ave.	Granite on Concrete	Oct. 31, 1915	Van Keuren & Son
Hackett St.	Plane St.—	westerly	Granite on Concrete	Oct. 31, 1915	Van Keuren & Son
Murray St.	N. J. R. R. Ave.—	Avenue C	Granite on Concrete	Nov. 28, 1915	Newark Paving Co.
Commercial St.	Railroad Pl.—	easterly	Granite on Concrete	Nov. 28, 1915	Van Keuren & Son
Ridge St.	Park Ave.—	Second Ave.	Brick	Nov. 28, 1915	Newark Paving Co.
Bleecker St.	High St.—	Lock St.	Brick	Nov. 28, 1915	Van Keuren & Son
Treat Pl.	William St.—	Branford Pl.	Asphalt Block	Dec. 12, 1915	Hastings Pavement Co.

PAVED STREETS UNDER GUARANTEE, JANUARY 1, 1914—*Continued.*

STREET NAME	LOCATION From	To	Nature of Improvement	Expiration of Guarantee	Contractor
Garrabrant Pl.	Bridge St.—northerly		Granite on Concrete	Dec. 12, 1915	Van Keuren & Son
Bloomfield Ave.	Mt. Prospect Ave.—City Line		Granite on Concrete	Dec. 12, 1915	Van Keuren & Son
Horatio St.	Hawkins St.—Manufacturers Pl.		Bitulithic	Dec. 31, 1915	J. F. Shanley & Co.
Clifton Ave.	Elwood Ave.—Grafton Ave.		Bitulithic	Dec. 31, 1915	J. F. Shanley & Co.
Goble St.	Thomas St.—Emmet St.		Bitulithic	Dec. 31, 1915	J. F. Shanley & Co.
Lake St.	Bloomfield Ave.—Park Ave.		Brick	Dec. 31, 1915	Jersey Paving Corporation
Frelinghuysen Ave.	Astor St.—Miller St.		Medina	Dec. 31, 1915	Newark Paving Co.
Freeman St.	Passaic Ave.—Bowery St.		Granite on Con.*	Mar. 1, 1915	J. F. Shanley Co.
Bank St.	Broad St.—Halsey St.		Asphalt*	Oct. 24, 1915	J. F. Shanley Co.
Halsey St.	Bank St.—Academy St.		Bitulithic*	Oct. 24, 1915	J. F. Shanley Co.
Academy St.	Halsey St.—easterly		Bitulithic*	Oct. 24, 1915	J. F. Shanley Co.
N. J. R. R. Ave.	Murray St.—Astor St.		Granite on Con.*	Nov. 19, 1915	Newark Paving Co.
Ridgewood Ave.	Watson Ave.—southerly 287 ft.		Brick	April 24, 1916	Jersey Paving Corporation
Ridgewood Ave.	Bigelow St.—Runyon St.		Brick	April 24, 1916	Jersey Paving Corporation
Seymour Ave.	Runyon St.—Hawthorne Ave.		Brick	May 29, 1916	Newark Paving Co.
Sheridan Ave.	Hunterdon St.—Peshine Ave.		Brick	May 29, 1916	Newark Paving Co.
Earl St.	Frelinghuysen Ave.—Elizabeth Ave.		Brick	May 29, 1916	Jersey Paving Corporation
Cortlandt St.	Ferry St.—Horatio St.		Bitulithic	May 29, 1916	Standard Bitulithic Co.
Thirteenth Ave.	Orange St.—East Orange Line		Granite on Concrete	May 29, 1916	Van Keuren & Son
South Nineteenth St.	South Tenth St.—South Twelfth St.		Asphalt	May 29, 1916	Standard Bitulithic Co.
Hedden Pl.	Clinton Ave.—Springfield Ave.		Brick	July 1, 1916	Newark Paving Co.
Ardsley Court	Walnut St.—southerly		Brick	July 1, 1916	Jersey Paving Corporation
Branford St.	Elizabeth Ave.—Frelinghuysen Ave.		Brick	July 1, 1916	Jersey Paving Corporation
Astor St.	N. J. R. R. Ave.—Avenue C		Brick	July 1, 1916	McMahon Construction Co.
Renner Ave.	Elizabeth Ave.—Seymour Ave.		Bitulithic	July 1, 1916	Standard Bitulithic Co.

PAVED STREETS UNDER GUARANTEE, JANUARY 1, 1914—*Continued.*

STREET NAME	LOCATION From	To	Nature of Improvement	Expiration of Guarantee	Contractor
South Thirteenth St.	Avon Ave.	Madison Ave.	Bitulithic	July 1, 1916	Standard Bitulithic Co.
Avenue B.	Emmet St.	Miller St.	Granite on Concrete	July 1, 1916	Jersey Paving Corporation
Gouverneur St.	Mt. Pleasant Ave.	Passaic St.	Granite on Concrete	July 1, 1916	J. F. Shanley Co.
Kirk Alley	Lawrence St.	Ward St.	Granite on Concrete	July 1, 1916	J. F. Shanley Co.
Hay Alley	Ward St.	Alling St.	Granite on Concrete	July 1, 1916	J. F. Shanley Co.
Exchange Alley	Hay Alley	Mechanic St.	Granite on Concrete	July 1, 1916	J. F. Shanley Co.
Frelinghuysen Ave.	Miller St.	Dayton St.	Granite on Concrete	July 1, 1916	Newark Paving Co.
Chestnut St.	Pacific St.	Elm Road	Granite on Concrete	July 1, 1916	J. F. Shanley Co.
Vincent St.	Ferry St.	W. P. Br. P. R. R.	Brick	July 31, 1916	Jersey Paving Corporation
Kent St.	Eighteenth Ave.	Skinkle St.	Brick	July 31, 1916	Newark Paving Co.
Camp Alley	Camp St.	southerly	Brick	July 31, 1916	Newark Paving Co.
Skinkle St.	S. Tenth St.	Kent St.	Brick	July 31, 1916	Newark Paving Co.
Alyea St.	Ferry St.	Hensler St.	Granite on Concrete	July 31, 1916	Jersey Paving Corporation
Mapes Ave.	Elizabeth Ave.	Bergen St.	Bitulithic	Aug. 28, 1916	Standard Bitulithic Co.
Clifton Ave.	Verona Ave.	Grafton Ave.	Bitulithic	Aug. 28, 1916	Standard Bitulithic Co.
Grafton Ave.	Summer Ave.	Mt. Prospect Ave.	Bitulithic	Aug. 28, 1916	Standard Bitulithic Co.
Brenner St.	South Tenth St.	Rose St.	Brick	Aug. 28, 1916	Newark Paving Co.
Coeyman St.	Summer Ave.	Mt. Prospct Ave.	Brick	Aug. 28, 1916	Philip Jannarone
Avenue A	Emmet St.	Poinier St.	Granite on Concrete	Aug. 28, 1916	Jersey Paving Corporation
Madison Ave.	Chadwick Ave.	South Eighteenth St.	Bitulithic	Sept. 25, 1916	Standard Bitulithic Co.
Ballantine Parkway	Clifton Ave.	Lake St.	Bitulithic	Sept. 25, 1916	Standard Bitulithic Co.
Concord St.	Elizabeth Ave.	Frelinghuysen Ave.	Brick	Sept. 25, 1916	Newark Paving Co.
North Thirteenth St.	Fourth Ave.	Park Ave.	Brick	Sept. 25, 1916	Jersey Paving Corporation
Whitney St.	South Orange Ave.	Dassing Ave.	Brick	Sept. 25, 1916	Newark Paving Co.
Winthrop St.	Summer Ave.	Lincoln Ave.	Brick	Sept. 25, 1916	Philip Jannarone

PAVED STREETS UNDER GUARANTEE, JANUARY 1, 1914—*Continued.*

STREET NAME	LOCATION From	To	Nature of Improvement	Expiration of Guarantee	Contractor
Plum Point Lane	Hawkins St.—Manufacturers' R. R.		Granite on Concrete	Sept. 25, 1916	Jersey Paving Corporation
West End Ave.	South Orange Ave.—Laurel Pl.		Asphalt Block	Sept. 25, 1916	Hastings Pavement Co.
Runyon St.	Elizabeth Ave.—Frelinghuysen Ave.		Brick	Oct. 30, 1916	Newark Paving Co.
Fifth St.	Bloomfield Ave.—Chester Ave.		Brick	Oct. 30, 1916	Jersey Paving Corporation
Bigelow St.	Elizabeth Ave.—Frelinghuysen Ave.		Brick	Oct. 30, 1916	McMahon Construction Co.
Sixth Ave.	Clifton Ave.—Parker St.		Brick	Oct. 30, 1916	J. F. Shanley Co.
Third Ave.	Morris Canal—Roseville Ave.		Brick	Oct. 30, 1916	J. F. Shanley Co.
South Eighteenth St.	South Orange Ave.—Clinton Ave.		Bitulithic	Oct. 30, 1916	Standard Bitulithic Co.
Sherman Ave.	Poinier St.—Peddie St.		Bitulithic	Dec. 4, 1916	Standard Bitulithic Co.
Clifton St.	Elizabeth Ave.—Frelinghuysen Ave.		Brick	Dec. 4, 1916	McMahon Construction Co.
Woodside Ave.	Elwood Ave.—Grafton Ave.		Brick	Dec. 4, 1916	P. & P. Jannarone
Bloomfield Ave.	Belleville Ave.—Mt. Prospect Ave.		Granite on Concrete	Dec. 4, 1916	Jersey Paving Corporation
Montclair Ave.	Mt. Prospect Ave.—Summer Ave.		Bitulithic	Dec. 30, 1916	Standard Bitulithic Co.
Sheerer Ave.	Renner Ave.—Bergen St.		Bitulithic	Dec. 30, 1916	Standard Bitulithic Co.
Lincoln Ave.	Irving St.—Verona Ave.		Bitulithic	Dec. 30, 1916	Standard Bitulithic Co.
Fourteenth Ave.	South Eleventh St.—City Line		Brick	Dec. 30, 1916	Newark Paving Co.
Essex Court	Beaver St.—Mulberry St.		Brick	Dec. 30, 1916	McMahon Construction Co.
Quitman Alley	West Kinney St.—Baldwin St.		Brick	Dec. 30, 1916	McMahon Construction Co.
Belmont Ave.	Hawthorne Ave.—Watson Ave.		Brick	Dec. 30, 1916	J. F. Shanley Co.
Hunter St.	Elizabeth Ave.—Frelinghuysen Ave.		Brick	Dec. 30, 1916	J. F. Shanley Co.
Ogden St.	Clay St.—Bridge St.		Granite on Concrete	Dec. 30, 1916	Jersey Paving Corporation
Van Buren St.	South St.—Clifford St.		Granite on Concrete	Dec. 30, 1916	P. & P. Jannarone
Parker St.	Abington Ave.—Delavan Ave.		Bitulithic*	Sept. 18, 1916	Standard Bitulithic Co.
South Fourteenth St.	South Orange Ave.—Springfield Ave.		Brick	April 29, 1917	Van Keuren & Son
Kipp St.	Rose St.—Waverly Ave.		Brick	May 27, 1917	McMahon Construction Co.

PAVED STREETS UNDER GUARANTEE, JANUARY 1, 1914—*Continued.*

STREET NAME	LOCATION From	To	Nature of Improvement	Expiration of Guarantee	Contractor
South St.	Pacific St.	Van Buren St.	Granite on Concrete	May 27, 1917	P. & P. Jannarone
Delancy St.	Pacific St.	Wheeler Pt. Road	Granite on Concrete	May 27, 1917	J. F. Shanley Co.
Hillside Ave.	Hawthorne Ave.	Watson St.	Brick	June 29, 1917	J. F. Shanley Co.
Market St.	P. R. R.	Pierson's Alley	Bitulithic	June 29, 1917	Standard Bitulithic Co.
Tillinghast St.	Osborne Terrace	Clinton Place	Bitulithic	July 29, 1917	Standard Bitulithic Co.
Custer Ave.	Peshine Ave.	Seymour Ave.	Bitulithic	Aug. 31, 1917	Standard Bitulithic Co.
Malvern St.	Pacific St.	Wheeler Pt. Road	Bitulithic	Aug. 31, 1917	Standard Bitulithic Co.
Vernon Ave.	Clinton Pl.	Nairn Pl.	Bitulithic	Aug. 31, 1917	Standard Bitulithic Co.
Cabinet St.	Camden St.	South Sixth St.	Brick	Aug. 31, 1917	O'Gara & Maguire
Alpine St.	Frelinghuysen Ave.	Elizabeth Ave.	Brick	Aug. 31, 1917	J. F. Shanley Co.
Bryant St.	Summer Ave.	Lincoln Ave.	Brick	Aug. 31, 1917	P. & P. Jannarone
Grant Ave.	Peshine Ave.	Hunterdon St.	Brick	Aug. 31, 1917	McMahon Construction Co.
Lawton St.	Peshine Ave.	Hunterdon St.	Brick	Aug. 31, 1917	McMahon Construction Co.
South Seventeenth St.	Springfield Ave.	South Orange Ave.	Brick	Aug. 31, 1917	Newark Paving Co.
Frelinghuysen Ave.	Dayton St.	City Line	Granite on Concrete	Aug. 31, 1917	Jersey Paving Corporation
Wright St.	Broad St.	Avenue B.	Granite on Concrete	Aug. 31, 1917	O'Gara & Maguire
Academy St.	Plane St.	High St.	Granite on Concrete	Sept. 30, 1917	Newark Paving Co.
Warren St.	Plane St.	Newark St.	Granite on Concrete	Sept. 30, 1917	J. F. Shanley Co.
Hillside Ave.	Watson Ave.	Meeker Ave.	Brick	Sept. 30, 1917	McMahon Construction Co.
Cypress St.	Leslie St.	Fabyan Pl.	Bitulithic	Sept. 30, 1917	Standard Bitulithic Co.
Ridge St.	Park Ave.	Sixth Ave.	Bitulithic	Sept. 30, 1917	Standard Bitulithic Co.
Beverly St.	Leslie St.	City Line	Bitulithic	Oct. 28, 1917	Standard Bitulithic Co.
Calumet St.	Pacific St.	Jefferson St.	Bitulithic	Oct. 28, 1917	Standard Bitulithic Co.
Clinton Pl.	Clinton Ave.	Renner Ave.	Bitulithic	Oct. 28, 1917	Standard Bitulithic Co.
Columbia Ave.	South Orange Ave.	Plymouth St.	Bitulithic	Oct. 28, 1917	Standard Bitulithic Co.

PAVED STREETS UNDER GUARANTEE, JANUARY 1, 1914—*Continued.*

STREET NAME	LOCATION From	To	Nature of Improvement	Expiration of Guarantee	Contractor
Fabyan Pl.	Clinton Ave.	Nye Ave.	Bitulithic	Oct. 28, 1917	Standard Bitulithic Co.
Shephard Ave.	Mapes Ave.	Bergen St.	Bitulithic	Oct. 28, 1917	Standard Bitulithic Co.
Voorhees St.	Leslie St.	City Line	Bitulithic	Oct. 28, 1917	Standard Bitulithic Co.
Highland Ave.	Bloomfield Ave.	Second Ave.	Brick	Oct. 28, 1917	P. & P. Jannarone
Belmont Ave.	Watson Ave.	Meeker Ave.	Brick	Oct. 28, 1917	McMahon Construction Co.
Jelliff Ave.	Watson Ave.	Meeker Ave.	Brick	Oct. 28, 1917	McMahon Construction Co.
Tichenor Lane	Murray St.	Parkhurst St.	Granite on Concrete	Oct. 28, 1917	Jersey Paving Corporation
Hobson St.	Hawthorne Ave.	Shaw Ave.	Bitulithic	Dec. 2, 1917	Standard Bitulithic Co.
Smith St.	South Orange Ave.	Silver St.	Bitulithic	Dec. 2, 1917	Standard Bitulithic Co.
Eleventh Ave.	South Eleventh St.	South Twelfth St.	Brick	Dec. 2, 1917	O'Gara & Maguire
South Nineteenth St.	Springfield Ave.	Fifteenth Ave.	Brick	Dec. 2, 1917	Newark Paving Co.
South Twelfth St.	Springfield Ave.	Avon Ave.	Brick	Dec. 2, 1917	Van Keuren & Son
McWhorter St.	Elm St.	Chestnut St.	Granite on Concrete	Dec. 2, 1917	Van Keuren & Son
	Johnson St.	Vesey St.			
Cabinet St.	Norfolk St.	Camden St.	Granite on Concrete	Dec. 2, 1917	Newark Paving Co.
West Kinney St.	Washington St.	High St.	Granite on Concrete	Dec. 2, 1917	J. F. Shanley Co.
Nutria St.	Branford Pl.	100 ft. northerly	Asphalt	Dec. 2, 1917	Standard Bitulithic Co.
Johnson Ave.	Watson Ave.	315 ft. southerly	Telford	Dec. 2, 1917	P. & P. Jannarone
Isabella Ave.	South Orange Ave.	Plymouth St.	Bitulithic	Dec. 16, 1917	Standard Bitulithic Co.
Nye Ave.	Clinton Pl.	City Line	Bitulithic	Dec. 30, 1917	Standard Bitulithic Co.
Elder Pl.	Camp St.	291 ft. southerly	Brick	Dec. 30, 1917	McMahon Construction Co.
Jefferson St.	Malvern St.	Chestnut St.	Bitulithic*	Nov. 14, 1917	Standard Bitulithic Co.
Ridge St.	Abington Ave.	Berkeley Ave.	Bitulithic*	Nov. 14, 1917	Standard Bitulithic Co.
Halsey St.	Market St.	Bank St.	Bitulithic*	Nov. 14, 1917	Standard Bitulithic Co.
Delavan Ave.	Parker St.	Lake St.	Warrenite*	Aug. 19, 1917	John W. Heller
Badger Ave.	Hawthorne Ave.	Meeker Ave.	Brick	Feb. 3, 1918	McMahon Construction Co.

PAVED STREETS UNDER GUARANTEE, JANUARY 1, 1914—*Continued.*

STREET NAME	LOCATION From	To	Nature of Improvement	Expiration of Guarantee	Contractor
Leslie St.	Hawthorne Ave—Shaw Ave.		Bitulithic	Feb. 3, 1918	Standard Bitulithic Co.
South Nineteenth St.	South Orange Ave.—City Line		Bitulithic	Feb. 3, 1918	Standard Bitulithic Co.
Richelieu Ter.	South Orange Ave.—Helen Pl.		Bitulithic	Feb. 3, 1918	Standard Bitulithic Co.
Market St.	R. R. Pl.—Bowery St.		Granite on Concrete	Feb. 24, 1918	Jersey Paving Corporation
Adams St.	Chestnut St.—South St.		Granite on Concrete	May 26, 1918	McMahon Construction Co.
Runyon St.	Elizabeth Ave.—Seymour Ave.		Brick	May 26, 1918	Newark Paving Co.
New York Ave.	Garrison St—Jabez St.		Bitulithic	June 30, 1918	Standard Bitulithic Co.
Elizabeth Ave.	W. N. Br. P. R. R.—City Line		Bitulithic	June 30, 1918	Standard Bitulithic Co.
Newark St.	Bank St.—Central Ave.		Bitulithic	June 30, 1918	Standard Bitulithic Co.
First Ave.	Third St.—Bloomfield Ave.		Brick	June 30. 1918	Newark Paving Co.
First St.	Orange St.—Morris Canal		Brick	June 30. 1918	Newark Paving Co.
Ashland St.	Fourteenth Ave.—South Orange Ave.		Brick	June 30. 1918	Newark Paving Co.
Dickerson St.	Norfolk St.—First St.		Granite on Concrete	June 30, 1918	Newark Paving Co.
Leonard Pl.	Plane St.—easterly		Brick	July 28, 1918	McMahon Construction Co.
Bonykamper Ave.	Hawkins St.—Christie St.		Granite on Concrete	July 28, 1918	Newark Paving Co.
Christie St.	Bonykamper Ave.—Ferry St.		Granite on Concrete	July 28, 1918	Wm. Jackson & Son
Alpine St.	So. Eighteenth St.—So. Nineteenth St.		Bitulithic	July 28, 1918	Standard Bitulithic Co.
Merchant Pl.	Merchant St.—easterly		Brick	Aug. 25, 1918	McMahon Construction Co.
Fourth St.	Park Ave.—Sixth Ave.		Brick	Aug. 25, 1918	Newark Paving Co.
Coeyman St.	Mt. Prospect Ave.—Clifton Ave.		Brick	Aug. 25, 1918	Van Keuren & Son
Spruce St.	Washington St.—High St.		Granite on Concrete	Aug. 25, 1918	Ralph Sangiovanni
Halsey St.	Camfield St.—Market St.		Asphalt Block	Aug. 25, 1918	Hastings Pavement Co.
St. Paul Ave.	South Orange Ave.—south of Cliff St.		Bitulithic	Aug. 25, 1918	Standard Bitulithic Co.
Bank St.	Plane St.—High St.		Granite on Concrete	Sept. 29, 1918	Ralph Sangiovanni
Meeker Ave.	Frelinghuysen Ave.—Weston Ave.		Reclipped G. on C.	Sept. 29, 1918	Martin J. Egan
Jeffrey Pl.	Bergen St.—Chadwick Ave.		Brick	Sept. 29, 1918	Newark Paving Co.

PAVED STREETS UNDER GUARANTEE, JANUARY 1, 1914—*Continued.*

STREET NAME	LOCATION From	To	Nature of Improvement	Expiration of Guarantee	Contractor
Wainwright St.	Hawthorne Ave.	Lyons Ave.	Brick	Sept. 29, 1918	McMahon Construction Co.
Patterson St.	Hamburgh Pl.	Niagara St.	Asphalt Block	Sept. 29, 1918	Hastings Pavement Co.
Tyler St.	Walnut St.	Chestnut St.	Granite on Concrete	Nov. 3, 1918	McMahon Construction Co.
Crawford St.	Washington St.	High St.	Granite on Concrete	Nov. 3, 1918	Jos. J. Hughes Contr'g Co.
Runyon St.	Seymour Ave.	Osborne Terrace	Granite on Concrete	Nov. 3, 1918	McMahon Construction Co.
Dewey St.	Hawthorne Ave.	Shaw Ave.	Bitulithic	Nov. 3, 1918	Standard Bitulithic Co.
Jefferson St.	Malvern St.	South St.	Bitulithic	Nov. 3, 1918	Standard Bitulithic Co.
South Twentieth St.	Springfield Ave.	Sixteenth Ave.	Bitulithic	Nov. 3, 1918	Standard Bitulithic Co.
Woodside Ave.	Elwood Ave.	Delavan Ave.	Brick	Nov. 3, 1918	Newark Paving Co.
Parker St.	Park Ave.	Sixth Ave.	Asphalt	Dec. 1, 1918	Continental Public W'ks Co.
Harvey St.	Mt. Pleasant Ave.	Moen Pl.	Asphalt	Dec. 1, 1918	Continental Public W'ks Co.
Noll Pl.	Sandford St.	Richelieu Terrace	Asphalt	Dec. 1, 1918	Continental Public W'ks Co.
Birks Pl.	Hawthorne Ave.	Nye Ave.	Bitulithic	Dec. 1, 1918	Standard Bitulithic Co.
Gold St.	Blum St.	Jacob St.	Brick	Dec. 1, 1918	McMahon Construction Co.
Howell Pl.	West End Ave.	Vermont Ave.	Asphalt	Dec. 29, 1918	Continental Public W'ks Co.
Hecker St.	Sussex Ave.	Dickerson St.	Asphalt	Dec. 29, 1918	Standard Bitulithic Co.
Schalk St.	Ferry St.	Passaic Ave.	Bitulithic	Dec. 29, 1918	Standard Bitulithic Co.
Alexander St.	South Orange Ave.	Bloemecke Alley	Bitulithic	Dec. 29, 1918	Standard Bitulithic Co.
Woodside Pl.	Arlington Ave.	Summer Ave.	Brick	Dec. 29, 1918	O'Gara & Maguire
Randolph Pl.	Clinton Pl.	South Fifteenth St.	Brick	Dec. 29, 1918	Wm. Jackson & Son
North Twelfth St.	Sixth Ave.	Seventh Ave.	Asphalt Block	Dec. 29, 1918	Hastings Pavement Co.
Unnamed alley	No. Twelfth St.	No. Thirteenth St.	Granite on Concrete	Dec. 29, 1918	Michael J. Sheridan
Belmont Ave.	Clinton Ave.	Alpine St.	Brick*	Jan. 7, 1918	Newark Paving Co.
Mechanic St.	Broad St.	easterly	Wood Block*	Aug. 14, 1918	O'Gara & Maguire

* Private.

ANNUAL REPORT

OF THE

Engineering Division, Department of Sewers and Drainage.

ANNUAL REPORT

OF THE

Engineering Division, Department of Sewers and Drainage.

Mr. Morris R. Sherrerd,
Chief Engineer.

Dear Sir:—I present herewith the Annual Report of the Department of Sewers and Drainage for the year ending December 31, 1913.

NEW CONSTRUCTION.

PUBLIC SEWERS.

Of the 25 public sewer contracts awarded in 1913 but one, the "Sewers for the Nye Tract," remains unfinished; and in addition 10 contracts awarded in 1912 but not finished were also completed. The total length of public sewers of all kinds constructed during the year was 53,558 lineal feet, including 64 feet of concrete pipe used in repair of Old Duryee Street Sewer, or 10.14 miles, divided as follows:

Combined Sewers	9,610 feet
House Sewers	24,735 feet
Storm Water Sewers	19,213 feet
	53,558 feet

Or classified as to material of construction:

Brick	125 feet
Plain concrete	1,475 feet
Reinforced concrete	9,433 feet
Concrete pipe (including 64 feet used in Duryee Street Repairs)	6,822 feet
Vitrified pipe	35,225 feet
Cast iron pipe	478 feet
Total	53,558 feet

In connection with these public sewers 131 basins and 289 manholes were built, and a total length of 28,763 feet of house connections were laid. One flush tank on Vermont Avenue was converted into a manhole. The total amount paid to contractors as per final estimates and last current estimate on uncompleted contract was $355,930.71, the largest amount ever paid out in one year since the organization of the first Board of Works.

Compared with 1912 the record is as follows:

YEAR	Contracts Awarded	Length of Sewers Built	Length of House Connections	Number of Basins	Number of Manholes	Total Cost
1912	30	33,905	13,089	44	170	$166,270.83
1913	25	53,558	28,763	131	289	355,930.71

The most important work of the year was the completion of the Vailsburg Drainage System, a system of storm water sewers draining the entire former Borough of Vailsburg, about 100 acres included within the old city limits and portions of East Orange, South Orange and Irvington. The work was begun in 1912, five separate contracts being awarded.

The following table shows the main features of the work:

SECTION	Length of Main Line	Length of Branches	Number of Basins	Number of Manholes	Total Cost	CONTRACTOR
Easterly Div.— Section 1	5,604	38	14	31	$93,721.48	Wm. J. McCloud & Co.
Easterly Div.— Section 2	2,686	1,473	32	27	19.150.91	James A. Christie
Middle Div.— Section 1	4,663	6	....	11	86,445.88	O'Gara & Maguire
Middle Div.— Section 2	3,801	2,372	20	34	63,677.19	O'Gara & Maguire
Westerly Division	3,755	4,549	58	60	106,989.02	J. W. Heller
Totals	20,509	8,438	124	163	$369,984.48	

In addition to providing a comprehensive system of surface and subsoil drainage, the three brooks or ditches which formerly were the only means of carrying off the storm waters have been obliterated, and also the stagnant water known as Kirgesner's Pond at Fifteenth Avenue and the City line. In order to fully complete the system two more branches will have to be built, one for the extreme southwesterly section of Vailsburg, part of which must go through Irvington, and the other in the northwesterly section, which will empty into the extension of the Westerly Division to be built by the City of East Orange.

Another important work was the completion of the Duryee Street Relief sewer at a total expense of $45,000, including extensive repairs to the old brick sewer in Duryee Street. At the worst point reinforced concrete pipe was substituted for the brick, 64 feet of this material being used.

The cost of inspection on public sewers was $6,337, an average of .022% of the contract cost, and 11.2 cents per foot of sewer.

The table below shows the inspection cost of each contract in detail:

CONTRACT	Length in Feet	Cost	Average Cost per ft.	Cost of Inspection	Cost of Inspection per ft.	Cost of Inspection per cent. of Cost
Duryee Street Relief Sewer	133	*$14,638.97	$110.06	$344.00	2.586	0.024
Vailsburg, Middle, Sec. 1	1,710	* 32,918.68	19.25	423.00	.247	.013
Vailsburg, Middle, Sec. 2	3,329	* 44,464.29	13.36	654.00	.197	.009
Vailsburg, Westerly	7,185	* 68,615.22	9.55	856.00	.119	.013
Vailsburg, Easterly, Sec. 1	4,978	* 72,458.48	14.42	1,112.00	.223	.015
Vailsburg, Easterly, Sec. 2	1,045	* 4,337.61	4.15	48.00	.046	.011
Halsey Street	140	361.00	2.58	34.00	.243	.094
North Thirteenth Street	442	1,064.44	2.41	48.00	.109	.045
Broad Street	265	1,532.10	5.78	102.00	.385	.066
Delavan Avenue	339	789.20	2.33	56.00	.165	.071
Broad Street Relief Sewer	726	7,406.03	10.20	258.00	.355	.035
Ferdinand Street	318	445.20	1.40	12.00	.038	.027
First and Roseville Avenues	1,861	3,599.30	1.93	174.00	.095	.049
North Twelfth Street	813	1,505.97	1.85	96.00	.118	.064
Gold Street	363	462.35	1.27	40.00	.110	.086
Weston Avenue	633	1,339.28	2.11	36.00	.057	.027
South Thirteenth Street	575	986.50	1.72	112.00	.195	.113
Alpine Street	151	247.90	1.64	24.00	.159	.097
Adams and Thomas Streets	1,239	6,101.72	4.92	100.00	.080	.016
Jay Street	130	617.90	4.76	56.00	.430	.096
Woodside Avenue	325	1,192.65	3.67	84.00	.258	.075
South Twentieth Street	1,643	3,864.08	2.35	118.00	.072	.036
Grafton Avenue	993	2,093.04	2.11	120.00	.121	.057
New Jersey Railroad Avenue	776	911.20	1.18	44.00	.057	.048
Woodside Avenue	684	1,523.27	2.23	60.00	.088	.039
Clifton Avenue	1,179	2,010.38	1.70	116.00	.099	.057
Jabez Street	393	638.75	1.63	16.00	.041	.025
Marion Place	300	563.25	1.88	28.00	.093	.049
Orange Street	211	600.60	2.84	40.00	.190	.066
Schley Street	500	661.32	1.32	32.00	.064	.048
Osborne Terrace and branch	7,244	20,207.42	2.79	364.00	.160	.018
Lackawanna Avenue	576	1,160.50	2.01	120.00	.209	.103
North Sixth Street	246	419.10	1.70	24.00	.098	.057
Grove Terrace and branches	6,211	6,517.38	1.05	246.00	.039	.038
Nye Tract Sewers	5,874	* 7,020.08	1.19	340.00	.058	.048
Total	53,530	*$313,275.16		$6,337.00		
Average			†5.59		*0.112	0.022

* The difference between these figures and those shown in the detailed table of public sewers is due to the 25% retention on current estimates.

† Duryee Street omitted owing to large cost of repairs to old sewers included in final estimate.

PRIVATE SEWERS.

Under the ordinance governing private sewers, six were built in 1913, having a total length of 5,306 feet, with 2,115 feet of house connections and 27 manholes. In 1912, 2,484 feet of sewer, 1,860 feet of house connections and 14 manholes were built.

ADDITIONAL SEWER WORK.

In addition to the above there were built under the direction of the Superintendent of Sewers out of Sewers and Drainage Account, 3 basins and 4 manholes, also 34 feet of pipe sewer. Four hundred and eighteen feet of pipe sewer and one manhole were built by the House Connection Department.

On paving and grading and curbing contracts by the Department of Streets and Highways 60 feet of brick sewer was built, 50 basins and 6 manholes.

The following table shows the total length of all sewers constructed during the year, classified as to material, system and Department by which they were constructed.

1913.

MATERIAL	Built by	House Sewage		Storm Water		Combined		Total	
		Feet	Miles	Feet	Miles	Feet	Miles	Feet	Miles
Brick	Contract	.....	.....	.....	.....	125	.03	.....	.....
	S. & H.	.....	.....	60	.01	.....	.....	.....	.....
	Total	.....	.....	60	.01	125	.03	185	.04
Plain Concrete	Contract	.....	.....	1,475	.28	.....	.....	1,475	.28
Reinforced Concrete	Contract	.....	.....	9,433	1.79	.....	.....	9,433	1.79
Concrete Pipe	Contract	.....	.....	6,024	1.14	798	.15	6,822	1.29
Vitrified Pipe	Contract	24,257	4.58	2,281	.43	8,687	1.64	35,225	6.67
	Private	2,834	.55	.....	.....	2,472	.47	5,306	1.00
	H. C.	40	.01	.....	.....	378	.07	418	.08
	S. & D.	.....	.....	.....	.....	34	.01	34	.01
	Total	27,131	5.14	2,281	.43	11,571	2.19	40,983	7.76
Cast Iron Pipe	Contract	478	.09	.....	.....	.....	.....	478	.09
Totals	.....	27,609	5.23	19,273	.365	12,494	2.37	59,376	11.25

	Manholes.	Basins.
Contract	289	131
Private	27	..
S. & D.	4	3
S. & H.	6	50
H. C.	1	..
Totals	327	184

Total cost, Public Sewer Contracts only, $355,930.71.

Deducting from the above the following amounts for sewers and appurtenances rebuilt or abandoned:

Brick, 64 ft. combined;
Concrete pipe, 6 ft. storm water;
Vitrified pipe, 2,582 ft. house sewage and 204 ft. combined;
Cast Iron Pipe, 132 ft. house sewage;
Manhole, 1;
Flush Tank, 1;

We have the following total to January 1, 1914:

MATERIAL	House Sewage		Storm Water		Combined		Total	
	Feet	Miles	Feet	Miles	Feet	Miles	Feet	Miles
Stone	.....	.....	323	.06	1,665	.32	1,988	.38
Brick	22,139	4.19	11,854	2.24	335,216	63.49	369,209	69.92
Brick and Concrete	6,235	1.19	.....	.....	70	.01	6,305	1.20
Plain Concrete	.....	.....	5,188	.98	6,161	1.17	11,349	2.15
Reinforced Concrete	.....	.....	29,992	5.68	.....	.....	29,992	5.68
Concrete Pipe	.....	.....	19,553	3.70	4,964	.95	24,517	4.65
Vitrified Pipe	357,923	67.78	22,019	4.17	745,060	141.11	1,125,002	213.06
Cast Iron Pipe	5,601	1.06	.....	.....	59	.01	5,660	1.07
Totals	391,898	74.22	88,929	16.83	1,093,195	207.06	1,574,022	298.11

Manholes 8,570
Basins 3,871
Flush Tanks 102
Total cost (public sewer contracts only), $5,680,906.51

HOUSE CONNECTIONS.

As has been the custom in recent years house connections were laid from the sewer to the curb on all public sewer contracts except on storm water sewers and those laid in streets already paved. Although not required, house connections were also laid on some of the private sewers. Details of both of the above are shown in the tables.

In the House Connection Department work was carried on continuously throughout the year both in advance of new

pavements and at request of property owners known as "Improvement" and "Construction" accounts respectively.

The following table shows the number and length of all connections laid during the year as compared with 1912:

	1913		1912	
	Number.	Length.	Number.	Length.
Public sewers	....	28,763	....	13,089
Private sewers	....	2,115	....	1,860
Improvement	1,241	23,877	1,878	34,573
Construction	515	13,114	664	12,335
Total		67,869		61,857

Relays and repairs were made necessary from the following causes:

Pipes stopped by roots	41
Defective work in old connections	9
Caused by tenants	15
On account of new water mains	35
On account of new gas mains	16
Miscellaneous causes	25
Total	141

It will be noted that the greatest number of stoppages are caused by roots. These come almost exclusively from poplar trees, the roots entering through the finest cracks in the joints, and rapidly growing inside until they completely fill the pipe. This trouble is increasing, as shown by the following table:

1907	3
1908	8
1909	19
1910	36
1911	29
1912	41
1913	41

Tap permits granted in 1913 were 1,524, against 1,105 in 1912. $18,365 was collected in tap fees and deposited with the Comptroller to the Account of Sewers and Drainage, an increase of $2,395 over 1912.

The total length of all house connections laid under the supervision of the Department is now 472,662 feet and the recorded taps 48,398.

FINANCIAL STATEMENT.

The following sums were collected through this office and turned over to the Comptroller for credit to the several departments as shown:

MONTH	Sewers and Drainage Sewer Taps	House Sewer Connections Curb Connections, Act of 1896	House Sewer Connections Service Construct'n, Act of 1907	House Sewer Connections, Board of Horse	Streets and Highways, Street Openings	Repairs to Asphalt Streets, Street Openings	Total
January	$ 1,200.00	.....	$ 1,291.81	$ 25.00	$ 296.68	$ 15.00	$ 2,828.49
February	1,160.00	.....	1,275.19	.....	384.33	105.00	2,924.52
March	1,370.00	$ 14.04	1,544.45	25.00	482.49	135.00	3,570.98
April	2,140.00	25.07	1,441.08	50.00	509.00	135.00	4,300.15
May	1,680.00	41.08	1,277.69	25.00	360.00	135.00	3,518.77
June	1,760.00	.....	1,148.65	25.00	400.00	60.00	3,393.65
July	2,260.00	7.80	1,425.65	25.00	491.50	135.00	4,344.95
August	1,330.00	.....	1,441.23	25.00	362.50	165.00	3,323.73
September	1,455.00	.....	2,126.97	25.00	372.00	170.00	4,148.97
October	1,300.00	12.88	1,240.62	25.00	248.00	90.00	2,916.50
November	1,340.00	.....	995.76	25.00	296.00	120.00	2,776.76
December	1,370.00	7.12	1,428.31	25.00	211.00	113.00	3,154.43
Totals	$18,365.00	$107.99	$16,637.41	$300.00	$4,413.50	$1,378.00	$41,201.90

DEPARTMENT OF HOUSE SEWER CONNECTIONS.

Report for Year Ending December 31, 1913.

RECEIPTS.

Appropriation, Tax Ordinance	$ 2,000.00	
Appropriation, Supplemental	3,000.00	
Service Construction	16,637.41	
Board of Horse	300.00	
Curb Connections, Act 1896	107.99	
Comptroller, Act 1907	25,884.39	
		$47,929.79

DISBURSEMENTS.

Pay Rolls	$28,434.31	
Sundry Salaries	2,040.00	
		$30,474.31
Printing and Stationery	$ 243.51	
Water Rent	17.50	
Night Watch and Fire Alarm	78.00	
Telephone	67.55	
Provender	649.07	
Electric Light	115.52	
Rent (Stable)	780.00	
Coal and Wood	21.80	
Veterinary Services	4.00	
Wagons and Repairs	207.36	
Harnes and Harness Repairs	30.20	
Horseshoeing	143.75	
Street Repairs	837.65	
Miscellaneous	50.65	

Tools and Hardware.....	322.12	
Paints and Oils.....	98.28	
Curb Markers	646.25	
Pipe	8,313.09	
Cement	533.27	
Lumber	100.40	
Water Service Repairs.....	42.41	
Refunds	240.66	
Sundry Labor	2,450.16	
Advertising	122.54	
Casualty Insurance	768.00	
Incidental (car fare, telephone calls, etc.).....	210.55	
		$17,094.29
Balance and transfer to contingent fund	361.19	
		$47,929.79

INTERCEPTING SEWER.

Condensed Statement for the Year 1913.

Total quantity pumped in 1913.....	4,988,179,938	gallons
Maximum pumped per day, April 28.	35,865,192	gallons
Minimum pumped per day, Dec. 5...	6,826,960	gallons
Average pumped per day, 1913.....	13,666,246	gallons
Average pumped per day, 1912.....	15,413,780	gallons
Coal consumed	1,573,652	pounds
Ashes removed	305,530	pounds

The cost of operating the pumping station for the year was:

Pay Rolls	$10,300.48
Supplies	3,940.26
Repairs	2,865.54
Total.....	$17,106.28

The chambers were cleaned five times during the year and 2,747 cubic yards removed. The cost of this work is included in the above. In 1912 the cost was $16,253.01, the increase being caused by extraordinary repairs to machinery and roof.

MAINTENANCE AND REPAIRS.

The statement below shows the principal work done by the Department and paid for out of the Sewer and Drainage Account:

	No.	Length.	Cubic Yards.
New Basins built	3	.....	....
Basins rebuilt	2	.....	....
New basin heads put on	14	.....	....
New basin lids put on	24	.....	....
Iron bars in front of basin openings	5	.....	....
Basin chutes repaired	16	.....	....
Basin chutes relaid	11	.....	....
Basin chutes cleaned	23	.....	....
Basins repaired	54	.....	....
Lids removed from basins	82	.....	....
Dead animals removed from basins	160	.....	....
Basins cleaned	5,097	.....	9,243
New manholes built	4	.....	....
Manholes rebuilt	2	.....	....
New manhole heads and covers put on	4	.....	....
New manhole covers put on	40	.....	....
Manholes repaired	80	.....	....
New lamp hole head put on	1	.....	....
Brick sewers dug up and repaired	3	.....	....

Brick sewers repaired from inside	65	.....	....
Brick sewers cleaned	....	40,875	1,325
Pipe sewers dug up and repaired	10	.....	....
Pipe sewers flooded and cleaned	....	221,365	423
Sumps cleaned	....	.....	544
Ditches cleaned	....	9,925	....
New 12" pipe laid	....	34	....

DREDGING.

Wheeler's Creek and the Tenth Ward Ditch were dredged for a length of 3,731 feet and approximately 5,000 cubic yards removed. The upper end of Peddie Street Ditch was cleaned once with the large dredge.

JOINT OUTLET SEWER.

The cost to Newark for maintenance of the Joint Outlet Sewer for 1913 was $2,000.00, against $2,178.56 for 1912.

At my suggestion the question of a new apportionment of this cost was again taken up and referred to the Engineer and Counsel of the Joint Meeting. It is hoped that it will result in a decrease in the proportion charged against this City.

The average flow in thousand gallons per day from the four sections of the sewer, together with the number of taps on each are shown below.

		South Orange Avenue	Nineteenth Avenue	Lyons Avenue	Vailsburg	Total	Rainfall
1912	Flow	201	300	510	1,409	2,420	44.70
	Taps	330	351	218	1,291	2,190	
	Gallons per tap	609	854	2,340	1,091	1,105	
1913	Flow	200	340	640	1,480	2,660	52.93
	Taps	372	430	251	1,396	2,449	
	Gallons per tap	537	791	2,550	1,060	1,086	

It will be noted that the flow per tap from three of the four sections decreased, notwithstanding the larger rainfall. These three sections are all affected by the new Vailsburg drains, and this result was expected. During 1914, with a full year's operation, the effect should be still more pronounced.

WEATHER REPORTS.

The rain guage formerly located at the Central High School was removed early in the year to the City Hall Annex in charge of Dr. Goslau. Owing to certain necessary repairs the guage was not put in operation until April 10th, so that the City records are incomplete. The missing dates are taken from the U. S. Government reports.

YEAR	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1912.....	2.46	2.72	8.46	2.73	4.12	1.65	4.21	3.30	1.80	3.59	4.32	5.34	44.70
1913.....	3.75	2.84	5.69	6.19	3.35	2.64	1.72	2.26	5.40	11.14	2.33	5.62	52.93

An exceptionally severe storm occurred on September 30th to October 2nd, when .28 inches of rain fell in five minutes, .53 in ten minutes, 1.50 in one hour, with a total for the storm of 6.44 inches. On June 20th .48 inches fell in five minutes and .78 in ten minutes.

I desire to express my appreciation of the work done by my assistants in their several capacities, which remain the same as in 1912.

John A. Schieck, Principal Assistant Engineer.
James B. Burnett, Engineer of Construction.
Goline Doremus, First Assistant Engineer.
James Conway, Rodman.
Otto Hornich, Head Bookkeeper.
Joseph Reilly, Clerk.
Valentine Herrmann, Rodman.
Percy Franklin, Draughtsman.

Respectfully submitted,

EDWARD S. RANKIN,
Engineer, Sewer and Drainage.

HOUSE CONNECTIONS LAID TO CURB IN ADVANCE OF NEW PAVEMENTS.

1912.

(This Table omitted in 1912 Report.)

STREET	LOCATION	No. of Connections	Length in Feet	Cost Per Foot	Total Cost	Sewer Extensions			Assessed on Property
						Size	Length	Cost	
Calumet Street	Pacific Street—Jefferson Street	10	160	$0.80	$ 128.00	.....	.....	.....	$ 141.00
Jefferson Street	Chestnut Street—South Street	13	246	.78	191.88	.....	.....	.....	200.02
Frelinghuysen Avenue	Lowell Place—Whittier Street	3	138	.55	75.90	.....	.....	.....	75.90
Cabinet Street	Wallace Place—Norfolk Street	1	16	.83	13.28	.....	.....	.....	14.60
Adams Street	Chestnut Street—South Street	23	318	.98	.....	.....	.....	.....	.....
Adams Street	Chestnut Street—South Street	.....	Iron 120	.24	458.04	.....	.....	.....	473.22
Hawthorne Avenue, Section 2	Bergen Street—Clinton Place	57	562	.90	.....	.....	.....	.....	.....
Hawthorne Avenue, Section 2	Bergen Street—Clinton Place	30	660	.82	.....	.....	.....	.....	.....
Hawthorne Avenue, Section 2	Bergen Street—Clinton Place	9	216	.78	.....	.....	.....	.....	.....
Hawthorne Avenue, Section 2	Bergen Street—Clinton Place	2	52	.74	.....	.....	.....	.....	.....
Hawthorne Avenue, Section 2	Bergen Street—Clinton Place	3	84	.70	.....	.....	.....	.....	.....
Hawthorne Avenue, Section 2	Bergen Street—Clinton Place	23	736	.62	1,769.08	.....	.....	.....	1,940.08
Tyler Street	Walnut Street—Chestnut Street	8	132	.85	112.20	.....	.....	.....	123.40
Highland Avenue	Bloomfield Avenue—Second Avenue	26	472	.68	320.96	.....	.....	.....	352.94
Academy Street	Plane Street—High Street	3	44	1.27	55.88	.....	.....	.....	61.46
West Kinney Street	Washington Street—High Street	9	146	1.23	.....	.....	.....	.....	.....
West Kinney Street	Washington Street—High Street	.....	10" 36	.....	216.99	.....	.....	.....	195.05
Vernon Avenue	Nairn Place—Clinton Place	3	54	.69	37.26	.....	.....	.....	40.98
Beverly Street	Leslie Street—City Line	13	212	.62	131.44	.....	.....	.....	144.44
Elizabeth Avenue	Hawthorne Avenue—Chancellor Avenue	65	1,528	.72	.....	.....	.....	.....	.....
Elizabeth Avenue	Hawthorne Avenue—Chancellor Avenue	2	8" 64	.80	.....	.....	.....	.....	.....
Elizabeth Avenue	Hawthorne Avenue—Chancellor Avenue	1	15" 30	1.20	1,187.36	.....	.....	.....	1,288.38
Custer Avenue	Peshine Avenue—Seymour Avenue	21	362	.72	260.64	.....	.....	.....	286.68
Shephard Avenue	Mapes Avenue—Bergen Street	32	582	.71	413.22	.....	.....	.....	454.82
Clinton Place	Clinton Avenue—Renner Avenue	82	1,486	.78	.....	.....	.....	.....	.....
Clinton Place	Clinton Avenue—Renner Avenue	8	192	.75	.....	.....	.....	.....	.....
Clinton Place	Clinton Avenue—Renner Avenue	3	78	.73	.....	.....	.....	.....	.....

HOUSE CONNECTIONS LAID TO CURB IN ADVANCE OF NEW PAVEMENTS—*Continued.*

STREET	LOCATION	No. of Connections	Length in Feet	Cost Per Foot	Total Cost	Sewer Extensions			Assessed on Property
						Size	Length	Cost	
Clinton Place	Clinton Avenue—Renner Avenue	21	588	.71	.....	.....	.....	.....	.....
Clinton Place	Clinton Avenue—Renner Avenue	.....	5″ 16	.....	1,777.50	.....	.....	.....	1,891.64
Jelliff Avenue	Watson Avenue—Meeker Avenue	16	272	.63	171.36	.....	.....	.....	188.48
Belmont Avenue	Watson Avenue—Meeker Avenue	8	128	.80	102.40	.....	.....	.....	112.64
Cypress Street	Leslie Street—Fabyan Place	2	32	.83	26.56	.....	.....	.....	29.20
Voorhees Street	Leslie Street—City Line	19	304	.76	231.04	10″	70′	$113.80	368.02
Badger Avenue	Hawthorne Avenue—Meeker Avenue	36	584	.76	443.84	.....	.....	.....	488.12
South Nineteenth Street	Springfield Avenue—Seventeenth Avenue	96	1,732	.60	1,039.20	.....	.....	.....	1,144.80
Ridge Street	Park Avenue—Sixth Avenue	6	108	.92	99.36	.....	.....	.....	109.26
Hillside Avenue	Watson Avenue—Meeker Avenue	6	96	.86	82.56	.....	.....	.....	90.84
Ridge Street	Abington Avenue—Berkeley Avenue	8	134	.82	109.88	.....	.....	.....	120.84
Wainwright Street, Section 1	Hawthorne Avenue—Bragaw Avenue	41	656	.68	446.08	.....	.....	.....	490.77
South Twelfth Street	Springfield Avenue—Avon Avenue	59	1,114	.61	679.54	10″	38′	50.92	803.62
South Nineteenth Street, Section 2	Fifteenth Avenue—Seventeenth Avenue	52	946	.60	567.60	.....	.....	.....	624.80
Leslie Street	Hawthorne Avenue—Shaw Avenue	107	1,704	.71	1,209.84	.....	.....	.....	1,330.75
Isabella Avenue	South Orange Avenue—Plymouth Street	31	4″ 502	.72	361.44	.....	.....	.....	397.40
Columbia Avenue	South Orange Avenue—Plymouth Street	32	4″ 518	.61	.....	.....	.....	.....	.....
Columbia Avenue	South Orange Avenue—Plymouth Street	6	96	.61	.....	.....	.....	.....	.....
Columbia Avenue	South Orange Avenue—Plymouth Street	1	4″ iron 7	1.14	382.52	.....	.....	.....	420.74
Wainwright Street, Section 2	Bragaw Avenue—Lyons Avenue	83	1,258	.80	1,006.40	.....	.....	.....	1,107.05
Smith Street	South Orange Avenue—Silver Street	18	4″ 296	.70	.....	.....	.....	.....	.....
Smith Street	South Orange Avenue—Silver Street	4	4″ iron 68	.90	268.40	.....	.....	.....	294.80
Richelieu Terrace	South Orange Avenue—Helen Place	31	4″ 586	.61	.....	.....	.....	.....	.....
Richelieu Terrace	South Orange Avenue—Helen Place	5	4″ iron 73	.85	419.51	.....	.....	.....	461.63
Fabyan Place	Clinton Avenue—Hawthorne Avenue	2	36	.80	.....	.....	.....	.....	.....
Fabyan Place	Clinton Avenue—Hawthorne Avenue	1	Iron 22	1.12	53.44	.....	.....	.....	58.78
St. Paul Avenue	South Orange Avenue—City Line	36	4″ 628	.70	439.60	.....	.....	.....	453.40
Hobson Street	Hawthorne Avenue—Shaw Avenue	111	1,766	.70	1,236.20	.....	.....	.....	1,360.52
Dickerson Street	Jay Street—First Street	10	216	.....	258.94	.....	.....	.....	258.94
High Street	Market Street—Clinton Avenue	51	1,172	1.03	1,207.16	.....	.....	.....	1,040.00

HOUSE CONNECTIONS LAID TO CURB IN ADVANCE OF NEW PAVEMENTS—*Continued.*

STREET	LOCATION	No. of Connections	Length in Feet	Cost Per Foot	Total Cost	Sewer Extensions			Assessed on Property
						Size	Length	Cost	
Runyon Street, Section 3	Bergen Street—Osborne Terrace	28	486	.88	427.68	.....	.....	.....	470.24
South Nineteenth Street, Section 3	Thirteenth Avenue—South Orange Avenue	30	582	.70	407.40	.....	.....	.....	446.40
Newark Street	Central Avenue—Branch Brook Park	19	328	.90	295.20	.....	.....	.....	324.65
Ashland Street	South Orange Avenue—Fourteenth Avenue	13	208	.80	166.40	.....	.....	.....	183.04
Tillinghast Street	Osborne Terrace—Clinton Place	63	1,140	.61	684.42	.....	.....	.....	753.86
Rose Terrace	Chadwick Avenue—South Tenth Street	58	1,118	.72	804.96	.....	.....	.....	885.00
Hazelwood Avenue	South Orange Avenue—Cliff Street	21	4" 347	.72	249.84	.....	.....	.....	274.83
First Avenue	Third Street—Fifth Street	9	222	.....	182.50	.....	.....	.....	182.50
First Street	Orange Street—Morris Canal	19	330	.94	.....	.....	.....	.....	.....
First Street	Orange Street—Morris Canal	.....	Iron 15	.....	324.30	.....	.....	.....	354.80
Alexander Street	South Orange Avenue—Bloemecke Alley	21	4" 336	.81	272.16	.....	.....	.....	299.25
South Twelfth Street	South Orange Avenue—Central Avenue	53	1,004	.81	813.20	.....	.....	.....	894.86
Renner Avenue	Seymour Avenue—Osborne Terrace	61	1,220	.77	939.40	.....	.....	.....	1,033.34
Schley Street	Hawthorne Avenue—Shaw Avenue	96	1,556	.79	.....	.....	.....	.....	.....
Schley Street	Hawthorne Avenue—Shaw Avenue	1	Iron 17	1.00	1,246.24	.....	.....	.....	1,370.40
Broad Street	Belleville Avenue—Clinton Avenue	1	12	2.35	.....	.....	.....	.....	.....
Broad Street	Belleville Avenue—Clinton Avenue	6	96	2.30	.....	.....	.....	.....	.....
Broad Street	Belleville Avenue—Clinton Avenue	2	40	2.25	.....	.....	.....	.....	.....
Broad Street	Belleville Avenue—Clinton Avenue	4	96	2.20	.....	.....	.....	.....	.....
Broad Street	Belleville Avenue—Clinton Avenue	8	224	2.15	.....	.....	.....	.....	.....
Broad Street	Belleville Avenue—Clinton Avenue	1	32	2.10	.....	.....	.....	.....	.....
Broad Street	Belleville Avenue—Clinton Avenue	4	144	2.05	.....	.....	.....	.....	.....
Broad Street	Belleville Avenue—Clinton Avenue	2	76	2.00	.....	.....	.....	.....	.....
Broad Street	Belleville Avenue—Clinton Avenue	1	48	1.90	.....	.....	.....	.....	.....
Broad Street	Belleville Avenue—Clinton Avenue	8	512	1.80	2,689.00	.....	.....	.....	2,689.00
		1,878	34,573		$27,495.24				$29,632.18

HOUSE CONNECTIONS LAID TO CURB IN ADVANCE OF NEW PAVEMENTS. 1913.

STREET	LOCATION	No. of Connections	Length in Feet	Cost Per Foot	Total Cost	Sewer Extensions			Assessed on Property
						Size	Length	Cost	
Broad Street	Camp Street—Poinier Street	5	40	$1.80					
Broad Street	Camp Street—Poinier Street	25	250	1.70					
Broad Street	Camp Street—Poinier Street	1	12	1.60					
Broad Street	Camp Street—Poinier Street	3	48	1.25					
Broad Street	Camp Street—Poinier Street	7	210	1.10					
Broad Street	Camp Street—Poinier Street	1	32	1.05					
Broad Street	Camp Street—Poinier Street	3	132	.95	$ 966.20				$ 966.20
Bowery Street	Market Street—Ferry Street	1	8″ 24	2.05					
Bowery Street	Market Street—Ferry Street	29	554	1.80	1,046.40				1,046.40
Bank Street	Plane Street—High Street	3	52	1.10					
Bank Street	Plane Street—High Street	6	60	1.70	159.20				166.60
Crawford Street	Washington Street—High Street	8	44	1.00					
Crawford Street	Washington Street—High Street	4	104	.76	126.04				139.80
Spruce Street	Washington Street—High Street	8	160	1.00	215.43				160.00
Marie Place	Belmont Avenue—Ridgewood Avenue	3	48	.98	47.04				51.75
Schalk Street	Ferry Street to Number 44	1	10	1.60					
Schalk Street	Ferry Street to Number 44	2	36	1.00					
Schalk Street	Ferry Street to Number 44	3	84	.71	111.64				115.00
Patterson Street	Hamburg Place—Niagara Street	6	102	.86	87.72				96.48
Gotthard Street	Elm Road—Hamburg Place	67	1,340	.70	938.00				1,031.80
Meeker Avenue	Frelinghuysen Avenue—Weston Avenue	9	162	.71	115.02				126.54
Randolph Place	South Fifteenth Street—Clinton Place	8	136	1.36	184.96				160.00
South Fifteenth Street	Clinton Avenue—Hawthorne Avenue	33	650	.90	671.58	8″	58′	$ 86.58	744.18
Halsey Street	Market Street—Branford Place	1	10″ 14	1.87	26.18				28.80
Cortland Place	Ferry Street—Horatio Street	1	10	1.49	14.90				16.40
Jeffrey Place	Bergen Street—Seymour Avenue	2	36	.82	29.52				32.46
Avenue L	Hamburg Place—St. Charles Street	50	914						
Avenue L	Hamburg Place—St. Charles Street		Iron 10		768.28	8″	40′		815.88

HOUSE CONECTIONS LAID TO CURB IN ADVANCE OF NEW PAVEMENTS—*Continued.*

STREET	LOCATION	No. of Connections	Length in Feet	Cost Per Foot	Total Cost	Sewer Extensions			Assessed on Property
						Size	Length	Cost	
Parker Street	Park Avenue—Sixth Avenue	7	86	1.08	92.88	.....	.....	.....	102.12
Noll Place	Richelieu Terrace—Sandford Avenue	8	128	.86	110.08	.....	.....	.....	121.12
Dewey Street	Hawthorne Avenue—Shaw Avenue	100	1,628	.83	1,351.24	.....	.....	.....	1,486.24
Birks Place	Hawthorne Avenue—Nye Avenue	12	192	.73	140.16	.....	.....	.....	154.20
Warren Street	South Ninth Street—Orange Street	2	12	1.15	.....	.....	.....	.....	.....
Warren Street	South Ninth Street—Orange Street	4	96	1.02	.....	.....	.....	.....	.....
Warren Street	South Ninth Street—Orange Street	1	26	.96	136.68	.....	.....	.....	144.36
South Sixteenth Street	So. Orange Avenue—175' so. of Fourteenth Ave.	5	94	.93	87.42	.....	.....	.....	95.47
South Twentieth Street	Sixteenth Avenue—Springfield Avenue	42	512	1.06	.....	.....	.....	.....	.....
South Twentieth Street	Sixteenth Avenue—Springfield Avenue	31	762	.75	1,114.22	.....	.....	.....	1,207.22
Springfield Avenue	Arlington Street—Morris Avenue	30	542	.....	.....	.....	.....	.....	.....
Springfield Avenue	Arlington Street—Morris Avenue	1	8" 22	.....	1,250.80	12"	98'	345.80	1,250.80
Bank Street	Plane Street—High Street	2	28	1.00	.....	.....	.....	.....	.....
Bank Street	Plane Street—High Street	1	8" 14	1.35	46.90	.....	.....	.....	50.80
Woodside Avenue	Delavan Avenue—Elwood Avenue	4	94	.80	76.80	.....	.....	.....	80.00
Orange Street	South Fourteenth Street—City Line	2	50	.....	63.39	.....	.....	.....	57.60
Hinsdale Place	Chester Avenue—Washington Avenue	30	488	.88	429.44	.....	.....	.....	472.34
South Orange Avenue	Columbia Avenue—Dover Street	96	2,084	.....	.....	.....	.....	.....	.....
South Orange Avenue	Columbia Avenue—Dover Street	.....	Iron 35	.....	2,132.09	.....	.....	.....	2,245.00
Vermont Avenue, R.W.	South Orange Avenue—Ricord Street	3	9	4.18	.....	.....	.....	.....	.....
Vermont Avenue, R.W.	South Orange Avenue—Ricord Street	1	20	1.00	57.62	.....	.....	.....	61.40
Vermont Avenue, R.W.	South Orange Avenue—Plymouth Street	1	22	.75	16.50	.....	.....	.....	18.15
Oakland Terrace	South Orange Avenue—Cameron Road	1	22	.75	.....	.....	.....	.....	.....
Oakland Terrace	South Orange Avenue—Cameron Road	15	4" 150	.85	.....	.....	.....	.....	.....
Oakland Terrace	South Orange Avenue—Cameron Road	16	4" 352	.70	391.17	.....	.....	.....	430.21
South Sixteenth Street	Eighteenth Avenue—Nineteenth Avenue	25	500	.92	460.00	.....	.....	.....	487.50
Nineteenth Avenue	South Sixteenth Street—City Line	17	400	.....	331.84	.....	.....	.....	340.00
Lackawanna Avenue	High Street—Boyden Street	4	24	2.04	.....	.....	.....	.....	.....
Lackawanna Avenue	Nesbitt Street—Clifton Avenue	6	84	1.25	153.96	.....	.....	.....	168.96
South Orange Avenue, R.W.	Stuyvesant Avenue—Richelieu Terrace	12	328	.71	.....	.....	.....	.....	.....

HOUSE CONNECTIONS LAID TO CURB IN ADVANCE OF NEW PAVEMENTS—*Continued.*

STREET	LOCATION	No. of Connections	Length in Feet	Cost Per Foot	Total Cost	Sewer Extensions			Assessed on Property
						Size	Length	Cost	
South Orange Avenue, R.W.	Stuyvesant Avenue—Richelieu Terrace	1	4" 20	.71	247.08	.....	.....	.....	252.00
Vermont Avenue	South Orange Avenue—City Line	22	4" ir'n 210	1.05	.....	.....	.....	.....	.....
Vermont Avenue	South Orange Avenue—City Line	.....	4" 140	.75	325.50	.....	.....	.....	357.40
Jabez Street	Hamburg Place—Avenue I	43	.....	.....	.....	.....	.....	.....	.....
Jabez Street	Hamburg Place—Avenue I	Relays 6	1,126	.....	972.00	.....	.....	.....	972.00
South Orange Avenue, Section 2	South Twentieth Street—Chelsea Avenue	81	2,128	.....	.....	.....	.....	.....	.....
South Orange Avenue, Section 2	South Twentieth Street—Chelsea Avenue	1	Iron 32	.....	2,163.35	.....	.....	.....	2,179.35
South Orange Avenue, Sec. 2, R.W.	South Twentieth Street—Munn Avenue	10	232	.70	200.47	.....	.....	.....	216.67
Alexander Street	Bloemecke Alley—Number 149	41	672	.69	463.68	.....	.....	.....	510.01
South Orange Avenue, Section 3	South Ninth Street—South Twentieth Street	51	1,190	.....	.....	.....	.....	.....	.....
South Orange Avenue, Section 3	South Ninth Street—South Twentieth Street	2	8" 116	.90	1,538.79	.....	.....	.....	1,538.79
Laurel Place	Vermont Avenue—West End Avenue	10	4" 156	.78	121.68	.....	.....	.....	133.85
Plymouth Street	South Munn Avenue—West End Avenue	14	4" 200	.64	.....	.....	.....	.....	.....
Plymouth Street	South Munn Avenue—West End Avenue	R.W. 1	10	.64	.....	.....	.....	.....	.....
Plymouth Street	South Munn Avenue—West End Avenue	.....	4" iron 30	.....	153.60	.....	.....	.....	168.96
Ricord Street	Vermont Avenue—West End Avenue	6	4" 96	.77	73.32	.....	.....	.....	80.70
Howell Place	Vermont Avenue—West End Avenue	R.W. 1	10	1.38	.....	.....	.....	.....	.....
Howell Place	Vermont Avenue—West End Avenue	R.W. 1	22	.63	.....	.....	.....	.....	.....
Howell Place	Vermont Avenue—West End Avenue	4" 4	64	.82	80.14	.....	.....	.....	88.12
South Orange Avenue, Sec. 3, R.W.	South Ninth Street—South Twentieth Street	4	56	.....	60.41	.....	.....	.....	66.00
South Eighteenth Street	So. Orange Ave. to 460' No. of Thirteenth Ave.	14	196	.94	184.24	.....	.....	.....	202.72
Warwick Street	Van Buren Street—Lang Street	1	6	1.04	.....	.....	.....	.....	.....
Warwick Street	Van Buren Street—Lang Street	1	18	.90	.....	.....	.....	.....	.....
Warwick Street	Van Buren Street—Lang Street	1	24	.83	42.36	.....	.....	.....	46.60
Leo Place	Vernon Avenue—Millington Avenue	9	158	.80	126.40	.....	.....	.....	139.00
Hawthorne Avenue	Elizabeth Avenue—Clinton Place	5	144	.92	126.72	.....	.....	.....	126.72
North Seventh Street	Fourth Avenue—Bloomfield Avenue	140	2,695	.88	.....	.....	.....	.....	.....
North Seventh Street	Fourth Avenue—Bloomfield Avenue	2	48	.83	2,411.44	.....	.....	.....	2,647.48
		1,241	23,877		$23,242.48				$24,397.12

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF JANUARY, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1										39.0
2										39.5
3									.69	44.2
4									.01	35.0
5										36.0
6									.03	47.5
7									.28	45.5
8									.20	38.5
9										24.0
10										28.7
11									.29	40.5
12									.20	43.0
13										24.2
14										29.5
15										34.5
16									.22	40.7
17									.15	49.2
18									.31	46.0
19										38.5
20										42.0
21									.20	41.0
22										38.0
23									.25	57.0
24									.18	43.0
25										39.7
26										41.0
27									.38	37.2
28										33.5
29									.24	30.7
30										35.2
31									.12	44.0
								Total	3.75	38.3

Copied from U. S. Climatological Service Report.

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF FEBRUARY, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	31.7
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	23.2
3	.....	.....	.....	.....	.....	.....	.....	.....	.31	31.5
4	.....	.....	.....	.....	.....	.....	.....	.....	.15	28.7
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	22.0
6	.....	.....	.....	.....	.....	.....	.....	.....	.02	20.5
7	.....	.....	.....	.....	.....	.....	.....	.....	.....	19.2
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.1
9	.....	.....	.....	.....	.....	.....	.....	.....	.....	27.1
10	.....	.....	.....	.....	.....	.....	.....	.....	.....	21.1
11	.....	.....	.....	.....	.....	.....	.....	.....	.40	28.7
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	23.1
13	.....	.....	.....	.....	.....	.....	.....	.....	.....	18.7
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	23.0
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	31.5
16	.....	.....	.....	.....	.....	.....	.....	.....	.01	36.5
17	.....	.....	.....	.....	.....	.....	.....	.....	.....	29.1
18	.....	.....	.....	.....	.....	.....	.....	.....	.....	26.1
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	31.1
20	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.0
21	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.1
22	.....	.....	.....	.....	.....	.....	.....	.....	.53	42.0
23	.....	.....	.....	.....	.....	.....	.....	.....	.....	34.5
24	.....	.....	.....	.....	.....	.....	.....	.....	.....	23.5
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	20.1
26	.....	.....	.....	.....	.....	.....	.....	.....	.....	26.5
27	.....	.....	.....	.....	.....	.....	.....	.....	1.40	38.7
28	.....	.....	.....	.....	.....	.....	.....	.....	.02	44.1
								Total.....	2.84	29.0

Copied from U. S. Climatological Service Report.

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF MARCH, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1									.03	38.7
2										34.7
3										31.5
4										40.7
5									.20	38.0
6									.16	30.1
7										* 15.7
8										23.5
9										45.0
10									.40	44.1
11									.23	41.7
12										40.7
13									.61	45.1
14									.58	50.7
15									.24	55.7
16										47.5
17									.02	36.7
18										37.0
19										46.0
20									1.60	51.0
21									.04	61.7
22										43.0
23										39.1
24										61.5
25									.05	70.1
26									.62	63.5
27									.87	54.5
28										36.7
29										40.7
30									.04	48.7
31										54.1
								Total	5.69	44.5

* Coldest day of year.

Copied from U. S. Climatological Service Report.

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF APRIL, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	47.7
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	47.1
3	.....	.....	.....	.....	.....	.....	.....	.....	.03	51.1
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	52.1
5	.....	.....	.....	.....	.....	.....	.....	.....	.30	53.7
6	.....	.....	.....	.....	.....	.....	.....	.....	.02	43.0
7	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.1
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	41.0
9	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.1
10	.....	.....	.....	.....	.....	.....	.....	.....	.10	44.0
11	6.30 a m	12.00 night	.08	9.40 p m	.11	9.35 p m	.23	9.30 p m	1.21	49.5
12	3.15 a m	12.00 night	.04	5.15 a m	.06	5.15 a m	.19	5.00 am	.77	57.7
13	12.00 night	4.45 a m	.01	2.30 a m	.02	2.40 a m	.03	2.00 a m	.11	52.7
14	2.25 p m	2.35 p m	.01	3.45 p m	.01	3.45 p m	.01	3.00 p m	.01	54.5
15	1.00 p m	12.00 night	.07	3.15 p m	.11	3.10 p m	.29	3.00 p m	1.14	51.1
16	1.45 a m	2.00 p m	.04	3.25 a m	.08	3.25 a m	.19	8.00 a m	1.37	47.7
17	7.00 a m	7.20 a m	.02	7.00 a m	.03	7.10 a m	.04	7.00 a m	.04	50.5
18	.....	.....	.....	.....	.....	.....	.....	.....	.....	53.0
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	58.7
20	.....	.....	.....	.....	.....	.....	.....	.....	.....	43.1
21	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.7
22	.....	.....	.....	.....	.....	.....	.....	.....	.....	56.5
23	4.50 a m	5.10 a m	.01	4.50 a m	.02	4.50 a m	.03	4.50 a m	.03	61.1
24	.....	.....	.....	.....	.....	.....	.....	.....	.....	58.5
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.7
26	.....	.....	.....	.....	.....	.....	.....	.....	.....	62.5
27	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.0
28	.....	.....	.....	.....	.....	.....	.....	.....	.....	57.1
29	4.20 a m	5.10 a m	.01	4.20 a m	.02	5.00 a m	.02	5.00 a m	.03	54.0
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	56.5
								Total.....	6.45	52.5

Copied from U. S. Climatological Service Report to April 10.

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF MAY, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	63.2
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	75.7
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.0
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.0
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	63.2
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.5
7	.....	.....	.....	.....	.....	.....	.....	.....	.....	65.5
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	58.2
9	.....	.....	.....	.....	.....	.....	.....	.....	.....	58.5
10	.....	.....	.....	.....	.....	.....	.....	.....	.....	48.5
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.0
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	55.5
13	.....	.....	.....	.....	.....	.....	.....	.....	.....	55.7
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	65.2
15	10.25 p m	11.20 p m	.01	10.25 p m	.01	10.25 p m	.02	10.00 p m	.03	58.2
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	64.7
17	2.00 p m	2.40 p m	.01	2.05 p m	.01	2.05 p m	.02	2.00 p m	.02	52.0
18	12.15 a m	10.10 p m	.03	9.20 p m	.06	9.20 p m	.12	9.00 p m	.19	58.5
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.0
20	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.7
21	11.10 p m	11.30 p m	.01	11.10 p m	.01	11.10 p m	.01	11.00 p m	.03	58.2
22	3.35 p m	9.25 p m	.03	3.55 p m	.05	3.55 p m	.12	4.00 p m	.31	65.7
23	6.40 p m	12.00 night	.20	7.15 p m	.33	7.15 p m	.96	7.00 p m	1.53	67.2
24	12.10 a m	5.00 p m	.05	4.50 p m	.08	4.50 p m	.19	4.00 p m	.61	59.0
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.2
26	.....	.....	.....	.....	.....	.....	.....	.....	.....	62.2
27	10.15 a m	8.20 p m	.02	5.50 p m	.03	5.50 p m	.05	5.00 p m	.17	58.0
28	8.20 a m	7.15 p m	.02	5.10 p m	.04	5.20 p m	.16	5.00 p m	.55	53.2
29	.....	.....	.....	.....	.....	.....	.....	.....	.....	58.2
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	63.5
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	72.2
								Total.....	3.44	61.6

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF JUNE, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.1
2	3.25 a m	3.40 a m	.01	3.30 a m	.02	3.30 a m	.02	3.30 a m	.02	70.1
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	67.5
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	70.5
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.0
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	64.7
7	3.35 p m	4.40 p m	.25	3.55 p m	.45	3.50 p m	1.12	3.45 p m	1.16	71.5
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	58.7
9	.....	.....	.....	.....	.....	.....	.....	.....	.....	55.0
10	.....	.....	.....	.....	.....	.....	.....	.....	.....	59.7
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	67.0
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.5
13	.....	.....	.....	.....	.....	.....	.....	.....	.....	63.5
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	76.5
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	71.5
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	79.0
17	.....	.....	.....	.....	.....	.....	.....	.....	.....	79.7
18	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.7
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	66.7
20	7.10 p m	10.00 p m	.48	7.10 p m	.78	7.10 p m	1.14	7.10 p m	1.42	70.2
21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.2
23	.....	.....	.....	.....	.....	.....	.....	.....	.....	72.5
24	.....	.....	.....	.....	.....	.....	.....	.....	.....	76.0
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.0
26	.....	.....	.....	.....	.....	.....	.....	.....	.....	70.5
27	.....	.....	.....	.....	.....	.....	.....	.....	.....	77.7
28	10.15 a m	10.20 a m	.04	10.15 a m	.04	10.15 a m	.04	10.15 a m	.04	77.0
29	.....	.....	.....	.....	.....	.....	.....	.....	.....	72.7
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	76.5
								Total.....	2.64	70.5

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF JULY, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	80.7
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	* 86.0
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	76.1
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	79.5
5	1.00 p m	1.10 p m	.06	1.05 p m	.08	1.00 p m	.08	1.00 p m	.08	77.7
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	82.1
7	.....	.....	.....	.....	.....	.....	.....	.....	.....	71.7
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	71.7
9	.....	.....	.....	.....	.....	.....	.....	.....	.....	74.7
10	12.00 night	1.55 a m	.05	12.45 a m	.10	12.40 a m	.28	12.00 night	.28	76.0
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	74.5
12	7.00 p m	8.05 p m	.05	7.00 p m	.09	7.05 p m	.27	7.00 p m	.32	73.5
13	7.05 p m	7.45 p m	.03	4.45 p m	.03	4.45 p m	.04	7.00 p m	.08	75.5
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	75.5
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	76.1
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	72.1
17	10.10 p m	10.50 p m	.01	10.25 p m	.01	10.25 p m	.04	10.00 p m	.06	73.7
18	3.15 a m	5.55 a m	.04	4.20 a m	.05	4.35 a m	.13	3.50 a m	.30	73.0
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	80.5
20	.....	.....	.....	.....	.....	.....	.....	.....	.....	74.7
21	.....	.....	.....	.....	.....	.....	.....	.....	.....	77.0
22	.....	.....	.....	.....	.....	.....	.....	.....	.....	75.7
23	.....	.....	.....	.....	.....	.....	.....	.....	.....	77.0
24	6.20 p m	6.25 p m	.05	6.20 p m	.05	6.20 p m	.05	6.00 p m	.08	76.7
25	.....	.....	.....	.....	.....	.....	.....	.....	.06	78.0
26	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.7
27	.....	.....	.....	.....	.....	.....	.....	.....	.....	72.7
28	4.40 p m	5.25 p m	.27	4.45 p m	.34	4.45 p m	.43	4.40 p m	.44	75.7
29	6.25 p m	6.30 p m	.01	6.25 p m	.....	6.25 p m	.....	6.25 p m	.01	77.5
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	82.5
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
								Total.....	1.70	76.7

* Warmest day of year.

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF AUGUST, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1	3.20 p m	4.50 p m	.11	4.05 p m	.20	4.05 p m	.52	3.20 p m	.56	74.0
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	76.0
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	77.0
4	4.40 p m	4.55 p m	.06	4.45 p m	.07	4.45 p m	.08	4.40 p m	.08	73.5
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	70.1
6	11.00 p m	12.00 night	.04	11.55 p m	.06	11.55 p m	.10	11.00 p m	.15	72.1
7	12.00 night	2.30 a m	.04	12.05 a m	.05	12.00 night	.21	12.00 night	.37	71.5
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	74.5
9	.....	.....	.....	.....	.....	.....	.....	.....	.....	78.0
10	5.45 p m	8.25 p m	.11	5.50 p m	.18	5.45 p m	.22	5.45 p m	.31	81.7
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	67.0
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.5
13	4.00 p m	4.05 p m	.01	4.00 p m	.01	4.00 p m	.01	4.00 p m	.01	69.0
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	69.5
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	71.5
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	74.5
17	.....	.....	.....	.....	.....	.....	.....	.....	.....	81.0
18	.....	.....	.....	.....	.....	.....	.....	.....	.....	79.0
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	74.7
20	.....	.....	.....	.....	.....	.....	.....	.....	.....	69.1
21	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.0
22	8.25 p m	12.00 night	.03	8.55 p m	.06	8.55 p m	.16	8.30 p m	.29	68.7
23	12.00 night	12.25 a m	.01	12.10 a m	.01	12.10 a m	.02	12.10 a m	.04	74.0
24	.....	.....	.....	.....	.....	.....	.....	.....	.....	72.5
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	69.0
26	.....	.....	.....	.....	.....	.....	.....	.....	.....	71.1
27	7.05 p m	7.15 p m	.09	7.05 p m	.10	7.05 p m	.10	7.00 p m	.11	71.7
28	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.1
29	9.00 p m	12.00 night	.04	11.40 p m	.06	11.40 p m	.13	11.00 p m	.26	75.1
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	75.0
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.0
								Total.....	2.18	73.1

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF SEPTEMBER, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.7
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.7
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	77.0
4	9.30 p m	12.00 night	.23	9.35 p m	.40	9.35 p m	.70	9.30 p m	1.00	77.7
5	12.00 night	12.20 a m	.02	12.15 a m	.02	12.15 a m	.04	12.00 night	.05	66.0
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	65.2
7	4.35 p m	10.15 p m	.03	4.35 p m	.05	4.35 p m	.05	10.00 p m	.11	68.5
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	71.0
9	.....	.....	.....	.....	.....	.....	.....	.....	.....	59.5
10	.....	.....	.....	.....	.....	.....	.....	.....	.....	57.7
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	57.7
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	62.2
13	12.00 night	3.10 a m	.02	1.45 a m	.04	1.45 a m	.13	1.25 a m	.26	60.5
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	56.7
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	56.0
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	59.0
17	.....	.....	.....	.....	.....	.....	.....	.....	.....	62.7
18	12.00 night	4.30 a m	.20	12.20 a m	.27	12.20 a m	.43	12.00 night	.67	72.0
19	12.00 night	4.15 a m	.09	12.35 a m	.14	12.30 a m	.32	12.10 a m	.41	58.7
20	8.15 p m	9.40 p m	.04	8.25 p m	.06	8.25 p m	.11	8.00 p m	.16	62.0
21	9.45 a m	12.00 night	.18	11.00 p m	.34	10.55 p m	.66	10.55 p m	.90	71.5
22	1.15 a m	8.00 a m	.06	7.45 a m	.09	7.45 a m	.16	7.00 a m	.44	65.5
23	.....	.....	.....	.....	.....	.....	.....	.....	.....	55.0
24	.....	.....	.....	.....	.....	.....	.....	.....	.....	57.0
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.5
26	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.7
27	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.0
28	.....	.....	.....	.....	.....	.....	.....	.....	.....	55.7
29	.....	.....	.....	.....	.....	.....	.....	.....	.....	59.7
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	63.2
								Total.....	4.00	63.3

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF OCTOBER, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1	6.25 a m	3.45 p m	.28	3.05 p m	.53	3.05 p m	1.50	1.00 p m	* 5.75	64.0
2	.....	.....	.....	.....	.....	.....	.....	.....	.65	60.2
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	61.7
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	62.0
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	64.0
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	65.0
7	.....	.....	.....	.....	.....	.....	.....	.....	.....	64.7
8	11.30 a m	8.40 p m	.07	12.10 noon	.10	12.05 p m	.17	12.00 noon	.40	65.7
9	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.5
10	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.2
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.0
12	12.40 a m	7.40 a m	.15	1.30 a m	.23	1.25 a m	.60	1.20 a m	1.32	59.5
13	.....	.....	.....	.....	.....	.....	.....	.....	.....	51.0
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	51.0
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	55.0
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	58.0
17	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.0
18	8.25 p m	10.55 p m	.01	8.25 p m	.01	8.25 p m	.04	8.25 p m	.07	58.7
19	3.30 p m	12.00 night	.03	6.15 p m	.07	6.15 p m	.14	6.00 p m	.30	57.5
20	4.05 a m	12.00 noon	.03	10.25 a m	.05	10.25 a m	.08	10.00 a m	.36	60.5
21	.....	.....	.....	.....	.....	.....	.....	.....	.....	47.2
22	.....	.....	.....	.....	.....	.....	.....	.....	.....	45.0
23	.....	.....	.....	.....	.....	.....	.....	.....	.....	48.0
24	4.45 p m	12.00 night	.05	9.35 p m	.08	9.35 p m	.20	7.00 p m	.83	59.2
25	12.45 a m	3.35 p m	.08	10.20 a m	.15	10.15 a m	.46	10.00 a m	2.67	63.0
26	.....	.....	.....	.....	.....	.....	.....	.....	.....	59.0
27	9.20 a m	9.25 a m	.01	9.20 a m	.01	9.20 a m	.01	9.20 a m	.01	55.0
28	.....	.....	.....	.....	.....	.....	.....	.....	.....	62.2
29	.....	.....	.....	.....	.....	.....	.....	.....	.....	55.5
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	50.7
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	39.7
								Total.....	12.36	57.3

* Greatest rainfall of year.

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF NOVEMBER, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	41.5
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	43.0
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	41.7
4	5.25 a m	5.30 a m	.01	5.25 a m	.01	5.25 a m	.01	5.25 a m	.01	46.0
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	43.5
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	44.0
7	.....	.....	.....	.....	.....	.....	.....	.....	.....	44.5
8	9.05 a m	9.20 p m	.13	6.55 p m	.19	6.55 p m	.36	6.50 p m	.55	56.7
9	6.35 a m	2.35 p m	.05	12.55 p m	.07	12.50 p m	.27	12.30 p m	.45	58.0
10	.....	.....	.....	.....	.....	.....	.....	.....	.....	37.2
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	33.2
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	37.7
13	.....	.....	.....	.....	.....	.....	.....	.....	.....	48.2
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.2
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	39.5
16	2.20 a m	12.00 night	.02	6.15 a m	.02	6.15 a m	.08	10.35 a m	.67	37.2
17	12.00 night	3.55 a m	.02	1.05 a m	.04	1.05 a m	.12	12.45 a m	.15	37.2
18	.....	.....	.....	.....	.....	.....	.....	.....	.....	44.0
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	52.7
20	2.00 a m	2.40 a m	.01	2.10 a m	.02	2.10 a m	.06	2.00 a m	.06	59.5
21	.....	.....	.....	.....	.....	.....	.....	.....	.....	53.7
22	.....	.....	.....	.....	.....	.....	.....	.....	.....	53.0
23	.....	.....	.....	.....	.....	.....	.....	.....	.....	53.2
24	.....	.....	.....	.....	.....	.....	.....	.....	.....	42.5
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	38.2
26	.....	.....	.....	.....	.....	.....	.....	.....	.....	44.2
27	.....	.....	.....	.....	.....	.....	.....	.....	.....	34.2
28	.....	.....	.....	.....	.....	.....	.....	.....	.....	40.5
29	12.35 a m	5.45 a m	.03	2.55 a m	.04	2.50 a m	.12	2.30 a m	.40	43.2
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	41.0
								Total.....	2.20	44.3

MONTHLY REPORT OF PRECIPITATION (Rain and Melted Snow).

Location of Rain Gauge, City Hall Annex. Elevation 58 Feet Above High Water.

MONTH OF DECEMBER, 1913.

Day of Month	Beginning	Ending	Maximum in 5 Minutes	Beginning	Maximum in 10 Minutes	Beginning	Maximum in 1 Hour	Beginning	Total Rain or Melted Snow	Average Temperature
1	.....	.....	.....	.....	.....	.....	.....	.....	.....	43.0
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	47.7
3	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.5
4	.....	.....	.....	.....	.....	.....	.....	.....	.....	41.7
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	43.7
6	.....	.....	.....	.....	.....	.....	.....	.....	.....	43.5
7	6.30 a m	4.35 p m	.03	7.45 a m	.05	7.45 a m	.16	7.00 a m	.68	51.0
8	.....	.....	.....	.....	.....	.....	.....	.....	.....	34.2
9	.....	.....	.....	.....	.....	.....	.....	.....	.....	30.2
10	.....	.....	.....	.....	.....	.....	.....	.....	.....	31.0
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	28.5
12	.....	.....	.....	.....	.....	.....	.....	.....	.....	32.5
13	.....	.....	.....	.....	.....	.....	.....	.....	.....	37.2
14	.....	.....	.....	.....	.....	.....	.....	.....	.....	38.2
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	39.2
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	37.0
17	.....	.....	.....	.....	.....	.....	.....	.....	.....	39.7
18	.....	.....	.....	.....	.....	.....	.....	.....	.....	38.0
19	.....	.....	.....	.....	.....	.....	.....	.....	.....	28.2
20	.....	.....	.....	.....	.....	.....	.....	.....	.....	31.2
21	10.50 p m	11.15 p m	.01	10.50 p m	.01	10.50 p m	.01	10.50 p m	.02	40.0
22	.....	.....	.....	.....	.....	.....	.....	.....	.09	41.0
23	.....	.....	.....	.....	.....	.....	.....	.....	2.32	41.0
24	.....	.....	.....	.....	.....	.....	.....	.....	.....	42.2
25	4.20 p m	12.00 night	.02	5.10 p m	.04	5.10 p m	.14	5.00 p m	.49	39.0
26	.....	.....	.....	.....	.....	.....	.....	.....	1.11	34.2
27	1.45 p m	2.05 p m	.01	1.45 p m	.01	1.45 p m	.01	1.45 p m	.02	26.0
28	.....	.....	.....	.....	.....	.....	.....	.....	.....	24.2
29	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.2
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	28.7
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	28.7
								Total.....	4.73	35.5

CATALOGUE

OF

CITY GOVERNMENT

FROM 1836 TO 1913

1836

MAYOR,

WILLIAM HALSEY.

RECORDER,

OLIVER S. HALSTEAD.

COMMON COUNCIL,

WILLIAM HALSEY, President, *Ex-Officio.*

N. Ward—Abm. W. Kinney,
William Lee,
Isaac Meeker,
John H. Stephens.

S. Ward—Isaac Baldwin,
Thomas B. Pierson,
Aaron Camp,
H. L. Parkhurst,

W Ward—Enoch Bolles,
William Rankin,
Abner P. Howell,
James Keene.

E. Ward—W. Garthwaite,
Joel W. Condit,
James Beardsley,
James Miller.

JOSEPH N. TUTTLE, Clerk.

NOTE—By its original Act of Incorporation the City of Newark was divided into four wards, respectively entitled North Ward, West Ward, South Ward and East Ward. The annual Charter election was appointed to be holden on the second Monday of April of each year. Each ward was empowered to elect four Aldermen annually, as members of the Common Council. In this catalogue, from 1836 to 1848, the term of office of the several officers named therein must be computed from the second Monday of April in each year.
N—North; W—West; S—South; E—East.

1837

MAYOR,

THEODORE FRELINGHUYSEN.

RECORDER,

JAMES DAWES.

COMMON COUNCIL,

ASA WHITEHEAD, President.

N. Ward—John H. Stephens,
Moses Ward,
A. C. M. Pennington,
Robert Baldwin,

S. Ward—Thomas B. Pierson,
Orange W. King,
Daniel Price,
Asa Whitehead.

W. Ward—Abner P. Howell,
John Young,
Charles T. Day,
David B. Crockett.

E. Ward—Wm. Garthwaite,
Abijah P. Ely,
Joel W. Condit,
Reuben Edmonds.

JOSEPH N. TUTTLE, Clerk.

1838

MAYOR,

THEODORE FRELINGHUYSEN.

RECORDER,

JAMES DAWES.

COMMON COUNCIL,

WILLIAM GARTHWAITE, President.

N. Ward—A. C. M. Pennington,
Silas A. Kitchell,
James R. Sayre,
John C. Pitt.

S. Ward—Rodney Wilbur,
James Wheeler,
Jabez W. Hayes,
Samuel H. Conger.

W. Ward—David B. Crane,
John Young,
Calvin Baldwin,
James Mitchell.

E. Ward—Wm. Garthwaite.
Abijah P. Ely,
George S. Mills,
Stephen Dod.

JOSEPH N. TUTTLE, Clerk.

1839

MAYOR,

JOHN MILLER.

RECORDER,

JOSEPH A. HALSEY.

COMMON COUNCIL,

ISAAC NICHOLS, President.

N. Ward—John W. Inness,
James H. Robinson,
Silas H. Kitchell,
Abm. W. Kinney.

S. Ward—Rodney Wilbur,
Samuel H. Conger,
James Wheeler,
Robert O. Robinson.

W. Ward—John Young,
Isaac Nichols,
Enoch Bolles,
James Hague, Jr.

E. Ward—Abijah P. Ely,
George S. Mills,
John Alling,
Robert Dod.

JOSEPH N. TUTTLE, Clerk.

1840

MAYOR,

OLIVER S. HALLSTEAD.

RECORDER,

JOSEPH A. HALSEY.

COMMON COUNCIL,

ASA WHITEHEAD, President.

N. Ward—W. Innes,
Silas H. Kitchell,
A. C. M. Pennington,
Fitch Smith.

S. Ward—Asa Whitehead,
Samuel H. Conger,
James Wheeler,
Caleb Carter.

W. Ward—Enoch Bolles,
Wm. A. Baldwin,
James Hague, Jr.,
James Keene.

E. Ward—Abijah P. Ely,
George S. Mills,
Robert Dod,
Fred H. Smith.

JOSEPH N. TUTTLE, Clerk.

1841

MAYOR,

WILLIAM WRIGHT.

RECORDER,

JOSEPH A. HALSEY.

COMMON COUNCIL,

ASA WHITEHEAD, President.

N. Ward—John W. Inness,	S. Ward—Asa Whitehead,
Silas H. Kitchell,	Samuel N. Conger,
Fitch Smith,	James Wheeler,
Oba Meeker.	Jabez G. Goble.
W. Ward—Wm. A. Baldwin,	E. Ward—Abijah P. Ely,
James Keene,	George S. Miller,
Charles T. Day,	Robert Dod,
Whitfield Nichols.	Fred H. Smith.

JOSEPH N. TUTTLE, Clerk.

1842

MAYOR,

WILLIAM WRIGHT.

RECORDER,

JOSEPH A. HALSEY.

COMMON COUNCIL,

ASA WHITEHEAD, President.

N. Ward—Fitch Smith,	S. Ward—Asa Whitehead,
David Campbell,	Samuel Meeker,
Oba Meeker,	Jabez G. Goble,
Reuben D. Baldwin.	Amos Wilcox.
W. Ward—Wm. A. Baldwin,	E. Ward—Fred H. Meeker,
Whitfield Nichols,	Moses Bigelow,
James H. Halsey,	Daniel M. Wilson,
Elihu Day.	Samuel Richards.

JOSEPH N. TUTTLE, Clerk.

1843

MAYOR,

WILLIAM WRIGHT.

RECORDER,

WILLIAM A. BALDWIN.

COMMON COUNCIL,

DANIEL M. WILSON, President.

N. Ward—Silas M. Kitchell,
Joseph A. Bowles,
John W. Inness,
Archer Gifford.

S. Ward—Jabez G. Goble,
Thomas B. Pierson,
Moses R. King,
Jos. Hollingsworth.

W. Ward—Elihu Day,
James H. Halsey,
James Keene,
Abner S. Reeve.

E. Ward—Horace J. Poinier,
Fred. H. Smith,
Daniel M. Wilson,
Samuel Richards.

JOSEPH N. TUTTLE, Clerk.

1844

MAYOR,

STEPHEN DOD.

RECORDER,

JOHN OGDEN.

COMMON COUNCIL,

JABEZ G. GOBLE, President.

N. Ward—Silas H. Kitchell,
Joseph W. Rice,
Joseph A. Bowles,
Wm. McBeth.

S. Ward—James C. Tingley,
Jabez G. Goble,
Samuel P. Smith,
John A. Johnson.

W. Ward—James Keene,
Elihu Day,
Abner S Reeve,
Charles Grand.

E. Ward—Horace J. Poinier,
Daniel Demarest,
Benjamin C. Miller,
Alex. Dickerson.

WM. K. McDONALD, Clerk—Appointed April 17, 1844.

1845

MAYOR,

ISAAC BALDWIN.

RECORDER,

JOHN OGDEN.

COMMON COUNCIL,

JOSEPH N. TUTTLE, President.

N. Ward—Beach Vanderpool,
Daniel Condit,
T. Frelinghuysen,
Reuben D. Baldwin.

S. Ward—Edward Engleton,
Wm. M. Scudder,
Horace N. Nichols,
Samuel P. Smith.

W. Ward—Joseph N. Tuttle,
James Keene,
Charles Grant,
A. N. Dougherty.

E. Ward—Daniel Demarest,
Fred H. Smith,
James Hewson,
B. McCormick, Jr.

WILLIAM K. McDONALD, Clerk.

1846

MAYOR,

BEACH VANDERPOOL.

RECORDER,

JOHN OGDEN.

COMMON COUNCIL,

FREDERICK H. SMITH, President.

N. Ward—F. T. Frelinghuysen,
Reuben D. Baldwin,
John Chadwick,
Abner W. Reeve,

S. Ward—Horace H. Nichols,
Ira Merchant,
John Annin,
Thomas B. Pierson.

W. Ward—Timothy C. Lord,
Aaron Baldwin,
James Searing,
Jos. Hollingsworth.

E. Ward—Fred H. Smith,
Ambrose Williams,
B. McCormick, Jr.,
James Hewson.

WILLIAM K. McDONALD, Clerk.

1847

MAYOR,

BEACH VANDERPOOL.

COMMON COUNCIL,

FREDERICK H. SMITH, President.

N. Ward—R. D. Baldwin,
Abner W. Reeves,
W. S. Faitoute,
George Stoudinger.

W Ward—J. Hollingsworth,
Timothy C. Ward,
Aaron Baldwin,
James Searing.

S. Ward—John Annin,
Elias Francis,
James Courter,
Thos. B. Pierson.

E. Ward—Fred. H. Smith,
B. McCormick, Jr.,
Dennis Osborne,
Ambrose Williams.

WILLIAM K. McDONALD, Clerk.

1848

MAYOR,

JAMES MILLER.

COMMON COUNCIL,

FREDERICK H. SMITH, President.

N. Ward—R. D. Baldwin,
Abner W. Reeves,
W. S. Faitoute,
George Stoudinger.

W. Ward—J. Hollingsworth,
James Searing,
Aaron Baldwin,
William Pickett.

S. Ward—John Annin,
James Courter,
Elias Francis,
Thomas B. Pierson.

E. Ward—Dennis Osborne,
B. McCormick, Jr.,
Fred. H. Smith,
Joel W. Condit.

5th Ward—Calvin S. Dennis,
Isaac Scribner,
M. W. Casterline,
J. A. Pennington.

WILLIAM K. McDONALD, Clerk.

NOTE—See Supplement to City Charter, passed March 13, 1851. Aldermen to be divided into two classes; and thereafter two Aldermen to be elected annually in each ward for the term of two years.

1849—1850

MAYOR,

JAMES MILLER.

COMMON COUNCIL,

FREDERICK H. SMITH, President.

N. Ward—Wm. S. Faitoute,
Edward Silvey,
David Campbell,
Cortlandt Parker.

W. Ward—Aaron Baldwin,
Aaron O. Price,
Jacob Van Arsdale,
J. V. Nichols.

S. Ward—Elias Francis,
Thos. B. Pierson,
Chas. T. Pierson,
Daniel Price.

E. Ward—Fred. H. Smith,
Joel W. Condit,
B. McCormick, Jr.,
Amb. Williams.

5th Ward—M. W. Casterline,
Aaron C. Ward,
Wm. W. Pollard,
Nathan Crowell.

WILLIAM K. McDONALD, Clerk.

AMZI DODD, Clerk—Appointed April 5, 1850.

1851

MAYOR,

JAMES M. QUINBY.

COMMON COUNCIL,

FREDERICK H. SMITH, President.

N. Ward—David Campbell,
Cortlandt Parker,
Edward Silvey,
Joseph L. Alden.

W. Ward—Jacob Van Arsdale,
J. V. Nichols,
Ebenezer Francis,
J. Hollingsworth.

S. Ward—Chas. T. Pierson,
Daniel Price,
J. C. Garthwaite,
Amos Wilcox.

E. Ward—B. McCormick, Jr.,
Amb. Williams,
Fred. H. Smith,
Nehemiah Perry.

5th Ward—Wm. W. Pollard,
J. A. Pennington,
M. W. Casterline,
Wm. Dennis.

AMZI DODD, Clerk.

1852

MAYOR,

JAMES M. QUINBY.

COMMON COUNCIL,

FREDERICK H. SMITH, President.

N. Ward—Edward Silvey, Joseph L. Alden, William W. Cooper.
W. " —Ebenezer Francis, Jos. Hollingsworth, Wm. E. Layton,
S. " —J. C. Garthwaite, Amos Wilcox, James B. Pinneo.
E. " —Fred. H. Smith, Nehemiah Perry, Thos. Kirkpatrick.
5th Ward—M. W. Casterline, William Dennis, James H. Tichenor.
6th " —James C. Barnet, Wm. Pennington, F. C. Hellinger.
7th " —Samuel Smith, James E. Bathgate, John Flintoft.

AMZI DODD, Clerk.

1853

MAYOR,

JAMES M. QUINBY.

COMMON COUNCIL,

NEHEMIAH PERRY, President.

N. Ward—Wm. W. Cooper, L. D. Baldwin,
W. " —Wm. E. Layton, John Young.
S. " —Nehemiah Perry, James A. Pridham.
E. " —Thos. Kirkpatrick, Stephen H. Condict.
5th Ward—Jas. H. Tichenor, Nicholas Moore.
6th " —James G. Barnet, H. A. Whitney.
7th " —John Flintoft, Samuel Smith.

AMZI DODD, Clerk.

ISAAC M. TUCKER, Clerk—Appointed March 4, 1853.

NOTE—See Supplement to City Charter, passed March 13, 1851—Aldermen to be divided into two classes, and thereafter two Aldermen to be elected annually in each ward for the term of two years.

1854

MAYOR,

HORACE J. POINIER.

COMMON COUNCIL,

LUCIUS D. BALDWIN, President.

N. Ward—L. D. Baldwin, Wm. L. Meeker,
W. " —Staats S. Morris, Wm. E. Layton,
S. " —James A. Pridham, H. N. Parkhurst.
E. " —Stephen H. Condict, John Dunham.
5th Ward—Nicolas Moore, Elias F. Ayres.
6th " —H. A. Whitney, Geo. H. Doremus,
7th " —Samuel Smith, Lyman Hyde.
8th " —John R. Crockett, Eleaser M. Dodd[1], Wm. H. Pierce[2].

ISAAC M. TUCKER, Clerk.

1855

MAYOR,

HORACE J. POINIER.

COMMON COUNCIL,

WILLIAM E. LAYTON, President.

1st Ward—Wm. L. Meeker, Eben C. Aber.
2d " —Wm. E. Layton, D. W. Baldwin.
3d " —H. N. Parkhurst, James W. Grover.
4th " —John Dunham, Samuel A. Baldwin.
5th " —Ellis F. Ayres, Samuel Richards.
6th Ward—Geo. H. Doremus, Rochus Heinisch.
7th " —Lyman Hyde, Samuel Smith.
8th " —John R. Crockett, Barney Dehart.
9th " —Joseph Black, Edward A. Crane.

ISAAC M. TUCKER, Clerk.

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[1] Died July 31, 1854. [2] Elected to fill vacancy, August 22, 1854.

1856

MAYOR,

HORACE J. POINIER.

COMMON COUNCIL,

HENRY M. PARKHURST, President.

1st Ward—Eben C. Aber, Richmond Ward.
2d " —D. W. Baldwin, Daniel Dodd, Jr.
3d " —James W. Grover, H. N. Parkhurst.
4th " —Samuel A. Baldwin, John C. Little.
5th " —Samuel Richard, John E. Ward.
6th Ward—Rochus Heinisch, Edward P. Hand.
7th " —Samuel Smith, Wm. H. Pierce.
8th " —Barney Dehart, J. W. E. Davidson.
9th " —Joseph Black, Edward A. Crane.

ISAAC M. TUCKER, Clerk.

1857

MAYOR,

MOSES BIGELOW.

COMMON COUNCIL,

HENRY M. PARKHURST, President.

1st Ward—Richmond Ward[1], T. R. Williams[2], Philetus W. Vail.
2d " —Daniel Dodd, Milton Baldwin.
3d " —H. N. Parkhurst, Washington A. Brintzinghoffer.
4th " —John C. Littell, Owen McFarland.
5th " —John E. Ward, John Lewis.
6th Ward—Edward P. Hand, Henry L. Martin.
7th " —Wm. H. Pierce, Samuel Smith.
8th " —J. W. E. Davidson, James H. Parker.
9th " —Edward A. Crane, Augustus R. Ball.
10th " —J. A. Pennington, James M. Lang.
11th " —James E. Bathgate, James G. Barnett.

ISAAC M. TUCKER, Clerk.

ENOS M. LEONARD, Clerk—Appointed Sept. 4, 1857.

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[1] Resigned March 6, 1857. [2] Elected to fill vacancy, March 24, 1857.

1858

MAYOR,

MOSES BIGELOW.

COMMON COUNCIL,

MILTON BALDWIN, President.

1st Ward—Philetus W. Vail, T. R. Williams.
2d " —Milton Baldwin, Daniel Dodd.
3d " —Washington A. Brintzinghoffer, H. N. Parkhurst.
4th " —Owen McFarland, Nathaniel C. Ball.
5th " —John Lewis, John E. Ward.
6th " —John Laible, Edward P. Hand.
7th Ward—Samuel Smith, Wm. H. Pierce.
8th " —James H. Parker. James Smith.
9th " —Augustus R. Ball, George H. Bruen.
10th " —James M. Lang, J. A. Pennington.
11th " —James G. Barnett, Cornelius Perine.

ENOS M. LEONARD, Clerk.

1859

MAYOR,

MOSES BIGELOW.

COMMON COUNCIL,

NATHANIEL C. BALL, President.

1st Ward—Thos. R. Williams, Edward Pierson.
2d " —Silas M. Todd, Daniel Dodd.
3d " —H. N. Parkhurst, Chas. S. Macknet.
4th " —Nathaniel C. Ball, David C. Dodd, Jr.
5th " —John E. Ward, Thomas Doyle.
6th " —Edward P. Hand, John Laible.
7th Ward—Frederick Kolb, Samuel Smith.
8th " —James Smith, John Flintoft.
9th " —George H. Bruen, James D. Cleaver.
10th " —J. A. Pennington,[1] Benjamin L. Dodd,[2] James M. Lang.
11th " —Cornelius Perine, James G. Barnett.

ENOS M. LEONARD, Clerk.

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[1] Died December 6, 1858. [2] Elected to fill vacancy, January 6, 1859.

1860

MAYOR,

MOSES BIGELOW.

COMMON COUNCIL,

JAMES D. CLEAVER, President.

1st Ward		—Edward Pierson, Charles A. Glaze.	6th Ward		—John Laible, Henry A. Whitney.
2d	"	—Silas M. Todd, Samuel Halsey.	7th	"	—Samuel Smith, Thomas McGrath.
3d	"	—Chas. S. Macknet, J. C. Beardsley.	8th	"	—John Flintoft, James Smith.
4th	"	—David C. Dodd,[1] Theo. Macknet,[2] Nathaniel C. Ball.	9th	"	—James D. Cleaver, Geo. H. Bruen.
5th	"	—Thos. Doyle,[3] J. W. Campbell,[4] Jerome B. Ward.	10th	"	—James M. Lang, Benj. L. Dodd,
			11th	"	—James G. Barnett, J. E. Bathgate

ENOS M. LEONARD, Clerk.

1861

MAYOR,

MOSES BIGELOW.

COMMON COUNCIL,

JEROME WARD, President.

1st Ward		—Charles A. Glaze, John Remer.	7th Ward		—Thos. McGrath, Samuel Smith.
2d	"	—Samuel Halsey, Silas M. Todd.	8th	"	—James Smith, Thomas Castles.
3d	"	—J. C. Beardsley, Chas. S. Macknet.	9th	"	—Geo. H. Bruen, James D. Cleaver.
4th	"	—Nathaniel C. Ball, John C. Littell.	10th	"	—Robert Williams, C. Wiedenmayer.
5th	"	—Jerome B. Ward, J. W. Campbell.	11th	"	—Jas. E. Bathgate, James R. Young.
6th	"	—H. A. Whitney, John Laible.	12th	"	—Mich. P. Nerney, John Brill.

ENOS M. LEONARD, Clerk.

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[1] Resigned. [2] Elected to fill vacancy, May 20, 1860. [3] Died September 6, 1860. [4] Elected September 20, 1860.

1862

MAYOR,

MOSES BIGELOW.

COMMON COUNCIL,

NATHANIEL C. BALL, President.

1st Ward—John Remer, James M. Smith.
2d " —Silas M. Todd, J. A. Simonson,[1] A. H. Woodruff,[2]
3d " —Chas. S. Macknet, Jos. O. Nichols.
4th " —John C. Littell, N. C. Ball.
5th " —J. W. Campbell, Jerome B. Ward.
6th " —Joseph Burroughs, Joseph Harth.
7th " —Daniel Murphy, Bernard Kearney.
8th Ward—Thomas Castles, James Smith.
9th " —James D. Cleaver, Wm. H. Murphy.
10th " —C. Wiedenmayer, Robert Williams.
11th " —James R. Young, James Rowe.
12th " —M. P. Nerney, Herman Schalk.
13th " —L. Reinhardt, Jos. Laible.

ENOS M. LEONARD, Clerk.

1863

MAYOR,

MOSES BIGELOW.

COMMON COUNCIL,

NATHANIEL C. BALL, President.

1st Ward—James M. Smith, John Remer.
2d " —A. H. Woodruff, Thomas J. Booth.
3d " —Joseph O. Nichols, David C. Dodd, Jr.
4th " —N. C. Ball, John C. Littell.
5th " —Jerome B. Ward, David Anderson.
6th " —Joseph Harth, Joseph Burroughs.
7th " —Bernard Kearney, Daniel Murphy.
8th Ward—James Smith, Thomas Castles.
9th " —W. H. Murphy, Daniel W. Baker.
10th " —Robert Williams, Thomas Gallen.
11th " —James Rowe, James R. Young.
12th " —Herman Schalk, James Hart.
13th " —L. Reinhardt, Herman Ise.

ENOS M. LEONARD, Clerk.

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[1] Resigned. [2] Elected December 16, 1862, to fill vacancy.

1864

MAYOR,

THEODORE RUNYON.

COMMON COUNCIL,

NATHANIEL C. BALL, President.

1st Ward—N. J. Demarest, John Remer,[1] Alex Grant,[2]
2d " —A. H. Woodruff, Thomas J. Booth.
3d " —Joseph O. Nichols, D. C. Dodd, Jr
4th " —Nathaniel C. Ball, John C. Littell,
5th " —Jerome B. Ward, David Anderson,
6th " —Joseph Harth, Joseph Burroughs,
7th " —Bernard Kearney, Daniel Murphy.
8th Ward—James Smith, Thomas Castles.
9th " —Wm. H. Murphy, Daniel W. Baker.
10th " —E. M. Noyes,[3] James T. Vanness,[4] Thomas Gallen.
11th " —James O'Neil, James R Young
12th " —Herman Schalk, James Hart
13th " —L. Reinhart, Herman Ise

ENOS M. LEONARD, Clerk.

1865

MAYOR,

THEODORE RUNYON.

COMMON COUNCIL,

JEROME B. WARD, President.

1st Ward—N. J. Demarest, Alexander Grant.
2d " —James L. Hays, A. H. Woodruff,[1]
3d " —T. P. Ranney,[5] C. S. Macknet, J. O. Nichols.
4th " —N. C. Ball, George Peters.
5th " —Abraham Turbett, Jerome B. Ward.
6th " —Joseph Harth, John H. Landell.
7th " —John Dwyer, Bernard Kearney.
8th Ward—Thos. W. Bracken, James Smith.
9th " —Daniel W. Baker, Wm. H. Murphy.
10th " —Thomas Gallen, Thos. T. Vanness.
11th " —James O'Neil, W. D. Voorhees.
12th " —James Hart, Herman Schalk.
13th " —Herman Ise, L. Reinhardt.

ENOS M. LEONARD, Clerk.

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[1] Died. [2] Elected May 31, 1864, to fill vacancy. [3] Removed from Ward. [4] Elected March 21, to fill vacancy. [5] Elected April 18, 1865, to fill vacancy.

1866

MAYOR,

THOMAS B. PEDDIE.

COMMON COUNCIL,

CHARLES S. MACKNET, President.

1st Ward—Charles Joy, Alexander Grant.
2d " —Samuel Atwater, James L. Hays.
3d " —Francis Mackin, Chas. S. Macknet.
4th " —David S. Plume, Tim. W. Lord,[2] George Peters.
5th " —Benjamin Smith, Abraham Turbett.
6th " —Theodore Horn, John H. Landell,
7th " —Andrew Atha, John Dwyer.
8th Ward—Francis Quinn, Thos. W. Bracken.
9th " —Spencer Scott, Daniel W. Baker.
10th " —A. C. Westervelt, Thomas Gallen.
11th " —James Rowe, W. D. Voorhees.
12th " —George Lorenz, James Hart.
13th " —Daniel Lauck, Herman Ise.

WILLIAM WARD, Clerk.

1867

MAYOR,

THOMAS B. PEDDIE.

COMMON COUNCIL,

DANIEL W. BAKER, President.

1st Ward—Charles Joy, Alexander Grant.
2d " —W. C. Huntington, Samuel Atwater.
3d " —Francis Mackin, William Stainsby.
4th " —David S. Plume, Wm. Robotham.
5th " —Benjamin Smith, Joseph LeLarge.
6th " —Theodore Horn, Jas. M. Patterson.
7th " —Andrew Atha, John Dwyer.
8th Ward—Francis Quinn, Alex. Eagles.
9th " —Spencer Scott, Daniel W. Baker.
10th " —A. C. Westervelt, John Williams.
11th " —James Rowe, James O'Neill.
12th " —George Lorenz, Jas. H. Tichenor.
13th " —Daniel Lauck, W. J. Aschenbach.

WILLIAM WARD, Clerk.

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[1] Resigned. [2] Elected October 5, 1866, to fill vacancy.

1868

MAYOR,

THOMAS B. PEDDIE.

COMMON COUNCIL,

DANIEL W. BAKER, President.

1st Ward—Alexander Grant, Aaron O. Mains.
2d " —W. C. Huntington, John A. Kase.
3d " —Wm. Stainsby, Orson Wilson.
4th " —Wm. Robotham, T. W. Lord.
5th " —Joseph LeLarge, Ira Budd.
6th " —J. M. Patterson, Jos. Brotherly.
7th " —John Dwyer, Thomas Austin.
8th Ward—Alex. Eagles. William A. Smith.
9th " —Daniel W. Baker, Spencer Scott.
10th " —John Williams, A. C. Westervelt.
11th " —James O'Neil, George Rudden.
12th " —Jas. H. Tichenor, T. Wiedenmayer.
13th " —W. J. Aschenbach, Fred Stevens.

WILLIAM WARD, Clerk.

1869

MAYOR,

THOMAS B. PEDDIE.

COMMON COUNCIL,

DANIEL W. BAKER, President.

1st Ward—Aaron O. Mains, Caleb G. Crane.
2d " —John H. Kase, James Perry.
3d " —Orson Wilson, Wm. Stainsby.
4th " —T. W. Lord, Walter L. Starr.
5th " —Ira Budd, Ed. Schickhaus.
6th " —Jos. Brotherly, Francis Goeken.
7th " —Thos. R. Austin, Albert Feller.
8th Ward—Wm. A. Smith, John A. Flintoft.
9th " —Spencer Scott, Daniel W. Baker.
10th " —A. C. Westervelt, Thos. Slaight.
11th " —George Rudden, Charles Cain.
12th " —T. Wiedenmayer, Thos. O'Rourke.
13th " —Fred Stevens, George C. Webner.

WILLIAM WARD, Clerk.

1870

MAYOR,

FREDERICK W. RICORD.

COMMON COUNCIL,

ALBERT C. WESTERVELT, President.

1st Ward—Caleb G. Crane, Aaron O. Mains.
2d " —James Perry, L. H. Armstrong.
3d " —Wm. Stainsby, Orson Wilson.
4th " —Walter L. Starr, John C. Littell,
5th " —Ed. Schickhaus, Bernard Lynch.
6th " —Francis Goeken, James L. Gurney.
7th " —Albert Feller, James Malone.
8th Ward—John A. Flintoft. Volney A. Ellis.
9th " —Daniel W. Baker, Spencer Scott.
10th " —Thomas Slaight, A. C. Westervelt.
11th " —Charles Cain, John Radel.
12th " —Thomas O'Rourke, T. Wiedenmayer.
13th " —Geo. C. Webner, Bernard Ruppel.

JAMES GILLEN, Clerk.

1871

MAYOR,

FREDERICK W. RICORD.

COMMON COUNCIL,

DANIEL W. BAKER, President.

1st Ward—Aaron O. Mains, Caleb G. Crane.
2d " —L. H. Armstrong, W. H. Baldwin.
3d " —Orson Wilson, Wm. Stainsby.
4th " —John C. Littell, Walter L. Starr.
5th " —Bernard Lynch, Ira Budd.
6th " —Jas. L. Gurney, John Richard.
7th " —James Malone, Henry R. Baker.
8th Ward—Volney A. Ellis, Eli H. Reynolds, Samuel Castles, Jr.
9th " —Spencer Scott, Daniel W. Baker.
10th " —A. C. Westervelt, Julius Steffens.
11th " —John Radel, Jas. E. Bathgate.
12th " —T. Wiedenmayer, Thos. O'Connor.
13th " —Bernard Ruppel, Fred. A. Traudt.

JAMES GILLEN, Clerk.

1872

MAYOR,

FREDERICK W. RICORD.

COMMON COUNCIL,

DANIEL W. BAKER, President.

1st Ward—Caleb G. Crane, Jas. Reeve Sayre.
2d " —W. H. Baldwin, L. H. Armstrong.
3d " —E. R. Pennington, Theodore Macknet.
4th " —Walter L. Starr, Oscar Barnet.
5th " —Ira Budd, W. E. Greathead, Edw. Schickhaus.
6th " —John Richard, James L. Gurney.
7th " —James Malone, Matt. McDowell.
8th " —Sam Castles, Jr., Eli H. Reynolds.
9th Ward—Daniel W. Baker, James Durand.
10th " —Julius Steffens, A. C. Westervelt.
11th " —James E. Bathgate, John Radel.
12th " —Thomas O'Connor, F. Bonykamper.
13th " —F. A. Traudt, J. D. Harrison.
14th " —James C. Ludlow, William Stainsby.
15th " —Charles Kreitler, Henry R. Baker.

JAMES GILLEN, Clerk.

1873

MAYOR,

FREDERICK W. RICORD.

COMMON COUNCIL,

JAMES C. LUDLOW. President.

1st Ward—Jas. Reeve Sayre, John McLorinan.
2d " —L. H. Armstrong, W. H. Baldwin.
3d " —Theodore Macknet, E. R. Pennington.
4th " —Oscar Barnet, Henry D. Gould.
5th " —Edw. Schickhaus, N. J. Fredericks.
6th " —James L. Gurney, H. T. Dusenberry.
7th " —Matt. McDowell, W. M. Freeman.
8th " —Eli H. Reynolds, Daniel Geary.
9th Ward—James M. Durand, I. Champenois.
10th " —A. C. Westervelt, Abram S. Staats.
11th " —John Radel, James E. Bathgate.
12th " —F. Bonykamper, Thomas O'Connor.
13th " —J. D. Harrison, Fred A. Traudt.
14th " —James C. Ludlow, William Stainsby.
15th " —Charles Kreitler, Henry R. Baker, J. H. Muchmore.

JAMES GILLEN, Clerk.

1874

MAYOR,
NEHEMIAH PERRY.

COMMON COUNCIL,
JAMES C. LUDLOW, President.

1st Ward—John McLorinan, Jas. Reeve Sayre.
2d " —W. H. Baldwin, Henry C. Soden.
3d " —E. R. Pennington, John C. Johnson.
4th " —Henry D. Gould, John C. Littell,[1] Henry J. Yates,[2]
5th " —N. J. Fredericks,[3] W. E. Greathead, Wm. B. Glasby.
6th " —H. T. Dusenberry, J. C. Fitzgerald.
7th " —Wm. M. Freeman, Matt. McDowell.
8th Ward—Daniel Geary, Eli H. Reynolds.
9th " —Walter Greacen, James W. Miller.
10th " —Abram S. Staats, A. C. Westervelt.
11th " —James E. Bathgate, Joseph Periam.
12th " —Thomas O'Connor,[5] F. Bonykamper.
13th " —Fred. A. Traudt, J. D. Harrison.
14th " —William Stainsby, James C. Ludlow.
15th " —J. H. Muchmore, William Carrolton.

JAMES GILLEN, Clerk.

[1] Died. [2] Elected February 3, 1874, to fill vacancy. [3] Died. [4] Elected June 22, 1874, to fill vacancy. [5] Died.

1875

MAYOR,
NEHEMIAH PERRY.

COMMON COUNCIL,
ALBERT C. WESTERVELT, President.

1st Ward—Jas. Reeve Sayre, William E. Pine.
2d " —Henry C. Soden, W. H. Baldwin.
3d " —J. C. Johnson,[1] Oliver Reeves.
4th " —Henry J. Yates, J. W. Vanderveer.
5th " —W. E. Greathead, John P. Hudson.
6th " —J. C. Fitzgerald, J. M. Patterson.
7th " —Matt. McDowell, W. M. Freeman.
8th " —Eli H. Reynolds,[2] Charles Marsh, William A. Smith,[3]
9th Ward—Jas. W. Miller, Walter Greacen.
10th " —A. C. Westervelt, Edwin Lister.
11th " —Joseph Periam, H. V. D. Schenck.
12th " —F. Bonykamper, Thomas McNally.
13th " —John D. Harrison, John Hunkele.
14th " —James C. Ludlow, William Stainsby.
15th " —William Carrolton, William A. Ure.

GEORGE K. COLEMAN, Clerk.

[1] Died. [2] Resigned. [3] Elected, 1875, to fill vacancy.

1876

MAYOR,

HENRY J. YATES.

COMMON COUNCIL,

WILLIAM STAINSBY, President.

1st Ward—William E. Pine, William Titus.
2d " —W. H. Baldwin, Joseph Colyer.
3d " —Oliver Reeves, C. N. Lockwood.
4th " —J. W. Vanderveer, Henry D. Gould.
5th " —John P. Hudson, W. E. Greathead.
6th " —J. M. Patterson, J. H. Wightman.
7th " —W. M. Freeman, James McCauley.[1]
8th " —Charles Marsh, William Smith.
9th Ward—Walter Greacen, James W. Miller.
10th " —Edwin Lister, Abram A. Staats.
11th " —H. V. D. Schenck, David Young.
12th " —Thomas McNally, W. W. Hawkins.
13th " —John Hunkele, C. H. Holzworth.
14th " —William Stainsby, M. L. DeVoursney.
15th " —Wm. A. Ure, John G. Harrison.

J. L. SUTPHEN, Clerk.

[1] Died September 27, 1876.

1877

MAYOR,

HENRY J. YATES.

COMMON COUNCIL,

WILLIAM STAINSBY, President.

1st Ward—William Titus, S.V.C.VanRensselaer.
2d " —Joseph Colyer, Nich. Van Ness.
3d " —C. N. Lockwood, John S. Clark.
4th " —Henry D. Gould,[1] Carl F. Seitz,[2] H. W. Gedicke.
5th " —W. E. Greathead, W. F. Larue,[3] Stephen Pell.[4]
6th " —J. H. Wightman, W. H. F. Fiedler.
7th " —Francis Lemon,[5] John G. Irwin,[6] Timothy Donnelly.
8th Ward—William A. Smith, James L. Martin.
9th " —James W. Miller, George W. Hubbell.
10th " —Abram S. Staats, Edwin Lister.
11th " —David Young, Henry Lang.
12th " —W. W. Hawkins, Jacob Kaiser.
13th " —C. H. Holzworth, John Hunkele.
14th " —M. L. DeVoursney, William Stainsby,
15th " —John G. Harrison, C. M. Theberath.

J. L. SUTPHEN, Clerk.

[1] Resigned August 3, 1877. [2] Elected at Charter Election to fill vacancy. [3] Died June 18, 1877. [4] Elected June 17, 1877, to fill vacancy. [5] Elected January 30, 1877, to fill unexpired term of Alderman McCauley, deceased. [6] Resigned September 7, 1877.

1878

MAYOR,

HENRY J. YATES.

COMMON COUNCIL,

DAVID YOUNG, President.

1st Ward—	S.V.C.VanRensselaer, William Titus.		8th Ward—	James L. Marvin, M. B. Provost.	
2d	" —Nich. Van Ness, John B. Thorne,[1] Joseph Colyer,[2]		9th	" —George W. Hubbell, Henry W. Wilson.	
3d	" —John S. Clark, W. B. Durand.		10th	" —Edwin Lister,[4] H. M. Mundy,[5] Joseph Mueller.	
4th	" —H. W. Gedicke, John C. Littell.		11th	" —Henry Lang, David Young.	
5th	" —Stephen Pell, S. A. Gardner.		12th	" —Jacob Kaiser, W. W. Hawkins.	
6th	" —W. H. F. Fiedler, Jul. B. Brose,[3] Albert Ridler,		13th	" —John Hunkele, C. H. Holzworth.	
			14th	" —William Stainsby, M. L. DeVoursney.	
7th	" —Timothy Donnelly, James G. Irwin.		15th	" —C. M. Theberath, John G. Harrison.	

J. L. SUTPHEN, Clerk.

[1] Resigned April 5, 1878. [2] Died August 17, 1878. [3] Elected to fill vacancy.

1879

MAYOR,

HENRY J. YATES.

COMMON COUNCIL,

DAVID YOUNG, President.

1st Ward—	William Titus, D. D. Bragaw.		9th Ward—	Henry W. Wilson, W. C. Hammond.	
2d	" —Joseph Colyer, Nich. Van Ness.		10th	" —Joseph Mueller. H. M. Mundy.	
3d	" —W. B. Durand, John S. Clark.		11th	" —David Young, Henry Lang.	
4th	" —John C. Littell, H. W. Gedicke.		12th	" —W. W. Hawkins, Jacob Kaiser.	
5th	" —S. A. Gardner, Stephen Pell.		13th	" —C. H. Holzworth, Frank L. Feind.	
6th	" —Albert Ridler, Fred. G. Krais,[1] W. H. F. Fiedler,		14th	" —M. L. DeVoursney, E. A. Wilkinson.	
			15th	" —J. G. Harrison, C. M. Theberath	
7th	" —James G. Irwin, Timothy Donnelly.				
8th	" —M. B. Provost, Aaron P. Littell.				

J. L. SUTPHEN, Clerk.

[1] Elected November 18, 1878, to fill vacancy occasioned by removal of Alderman Fiedler from the Ward.

1880

MAYOR,

WILLIAM H. F. FIEDLER.

COMMON COUNCIL,

DAVID YOUNG, President.

1st Ward—D. D. Bragaw, Pierson G. Dodd.
2d " —Nich. Van Ness, Joseph Colyer.
3d " —John S. Clark, Eben A. Smith.
4th " —H. W. Gedicke, John C. Littell.
5th " —Stephen Pell, James E. Fleming.
6th " —Fred. G. Krais, Adam Turkes.
7th " —Timothy Donnelly, John Hogan.
8th " —Aaron P. Littell, M. B. Provost.
9th Ward—W. C. Hammond, Henry A. Lyon.
10th " —Henry L. Mundy, Joseph Mueller.
11th " —Henry Lang, David Young.
12th " —Jacob Kaiser, John W. Ripley.
13th " —Frank L. Feind, William Roemer.
14th " —E. A. Wilkinson, M. L. DeVoursney.
15th " —C. M. Theberath, William Carrolton.

J. L. SUTPHEN, Clerk.

1881

MAYOR,

WILLIAM H. F. FIEDLER.

COMMON COUNCIL,

DAVID YOUNG, President.

1st Ward—Pierson G. Dodd, D. D. Bragaw.
2d " —Joseph Colyer, William Wright.
3d " —Eben Smith, S. B. Jackson.
4th " —John C. Littell, Joel W. C. Pool.
5th " —Edw. Shickhaus, Stephen Pell.
6th " —Adam Turkes, Fred. G. Krais.
7th " —John Hogan, Thomas O'Connor.
8th " —M. B. Provost, Aaron P. Littell.
9th Ward—Henry A. Lyon, George B. Sandford.
10th " —Charles H. Zipp, Henry H. Mundy.
11th " —David Young, Henry Lang.
12th " —John W. Ripley, G. W. Wiedenmayer.
13th " —William Roemer, William Bonnett.
14th " —M. L. DeVoursney, David H. Barnet.
15th " —William Carrolton, C. M. Theberath.

J. L. SUTPHEN, Clerk.

1882

MAYOR,

HENRY LANG.

COMMON COUNCIL,

PIERSON G. DODD, President.

1st Ward—	Pierson G. Dodd, D. D. Bragaw.		9th Ward—	S. Thos. Wilcox, Geo. B. Sandford.	
2d	" —J. W. Vanderveer, John K. Dodd.		10th	" —A. James Payne. Henry H. Mundy.	
3d	" —A. Dusenberry, S. B. Jackson.		11th	" —Osceola Currier, Wm. S. Ayres.	
4th	" —Edwin Lister, Joel W. C. Pool.		12th	" —Louis Hallgring, G. W. Wiedenmayer.	
5th	" —J. W. Ripley, Stephen Pell.		13th	" —Thomas Hickey, William Bonnett.	
6th	" —Adam Turkes, Fred. G. Krais.		14th	" —C. E. Sutphen, David H. Barnet.	
7th	" —John Hogan, Thos. O'Connor.		15th	" —J. H. Muchmore, C. M. Theberath.	
8th	" —M. B. Provost, Aaron P. Littell.				

J. L. SUTPHEN, Clerk.

1883

MAYOR,

HENRY LANG.

COMMON COUNCIL,

GEORGE W. WIEDENMAYER, President.

1st Ward—	Pierson G. Dodd, D. D. Bragaw.		9th Ward—	S. Thos. Wilcox, George B. Sandford.	
2d	" —J. W. Vanderveer, James Smith, Jr.		10th	" —A. James Payne, Henry S. Dunn.	
3d	" —A. Dusenberry, Franklin Murphy.		11th	" —Osceola Currier, Tyler Parmley.	
4th	" —A. C. Denman, Theo. C. Hewson.		12th	" —Louis Hallgring, G. W. Wiedenmayer.	
5th	" —John W. Ripley, James F. Connelly.		13th	" —Thos. H. Hickey, T. C. Eggerking.	
6th	" —Adam Turkes, A. Henninger.		14th	" —C. E. Sutphen, David H. Barnet.	
7th	" —John Hogan, Thos. O'Connor.		15th	" —J. H. Muchmore, C. M. Theberath.	
8th	" —M. B. Provost, T. F. McKirgan.				

S. H. PEMBERTON, Clerk.

1884

MAYOR,

JOSEPH E. HAYNES.

COMMON COUNCIL,

GEORGE W. WIEDENMAYER, President.

1st Ward		—D. D. Bragaw, Pierson G. Dodd.	9th Ward		—George B. Sandford, S. Thos. Wilcox.
2d	"	—James Smith, Jr., J. W. Vanderveer.	10th	"	—Henry S. Dunn, Gust. A. Ortman.
3d	"	—Franklin Murphy, Aug. Dusenberry.	11th	"	—Tyler Parmley, Osceola Currier.
4th	"	—Theo. C. Hewson, A. C. Denman.	12th	"	—G. W. Wiedenmayer, John J. Clancy.
5th	"	—James F. Connelly, Geo. S. Smith.	13th	"	—T. C. Eggerking, Thos. H. Hickey.
6th	"	—H. Henninger, R. G. P. Dieffenbach.	14th	"	—David H. Barnet, C. E. Sutphen.
7th	"	—W. E. O'Connor, Patrick Callan.	15th	"	—George W. Frey, Henry R. Baker.
8th	"	—T. F. McKirgan,[1] M. B. Provost.			

JOSEPH ATKINSON, Clerk.

[1] Died. Lewis L. Carlisle elected to fill vacancy.

1885

MAYOR,

JOSEPH E. HAYNES.

COMMON COUNCIL,

PIERSON G. DODD, President.

1st Ward		—Pierson G. Dodd, Lyman E. Kane.	9th Ward		—S. Thomas Wilcox, Alex. H. Johnson.
2d	"	—J. W. Vanderveer,[1] J. W. Strahan,[2] James Smith, Jr.	10th	"	—Gust. A. Ortman, Henry S. Dunn.
3d	"	—Aug. Dusenberry, Franklin Murphy.	11th	"	—Osceola Currier, Tyler Parmley.
4th	"	—A. C. Denman, Theo. Hewson.	12th	"	—John J. Clancy, Arthur Zipf.
5th	"	—Geo. S. Smith, James V. Hamlin.	13th	"	—Thos. H. Hickey, John Theobald.
6th	"	—R. G. P. Dieffenbach, Wm. B. Sweasy.	14th	"	—C. E. Sutphen, Joseph M. Riker.
7th	"	—Patrick Callan, W. E. O'Connor.	15th	"	—Henry R. Baker, Carl Baumann.
8th	"	—M. B. Provost, Lewis L. Carlisle.			

SAMUEL H. PEMBERTON, Clerk.

[1] Resigned May 1, 1885. [2] Elected May 26, 1885, to fill vacancy.

1886

MAYOR,

JOSEPH E. HAYNES.

COMMON COUNCIL,

FRANKLIN MURPHY, President.

1st	Ward	Lyman E. Kane, Pierson G. Dodd.	8th	Ward	Lewis L. Carlisle, Richard A. Price.
2d	"	James Smith, Jr., John W. Strahan.	9th	"	Alex. H. Johnson, Elisha B. Gaddis.
3d	"	Franklin Murphy, Aug Dusenberry	10th	"	Henry S. Dunn, J. L. Armitage.
4th	"	T. C. Hewson, A. C. Denman,[1] Philip Roth, Sr.[2]	11th	"	Tyler Parmley, Charles E. Hill.
5th	"	James V. Hamlin, George S. Smith,[3] James F. Connelly.[4]	12th	"	Arthur Zipf, John J. Clancy.
6th	"	Wm. B. Sweasy, John F. Ehlers.	13th	"	John Theobald, Thos. H. Hickey.
7th	"	W. E. O'Connor, Patrick Callan.	14th	"	Joseph M. Riker, J. R. Van Valen.
			15th	"	Carl Baumann, Henry R. Baker.

SAMUEL H. PEMBERTON, Clerk.

[1] Resigned August 6, 1886. [2] Elected October 12, 1886, to fill vacancy.
[3] Died Rebruary, 1886. [4] Elected March 16, to fill vacancy.

1887

MAYOR,

JOSEPH E. HAYNES.

COMMON COUNCIL,

PIERSON G. DODD, President.

1st	Ward	Pierson G. Dodd, Lyman E. Kane.	9th	Ward	Elisha B. Gaddis, Alex. H. Johnson.
2d	"	J. W. Strahan, Eugene Ufford.	10th	"	J. L. Armitage, James Marlatt.
3d	"	A. Dusenberry, Frank M. Parker.	11th	"	Charles E. Hill, G. W. Ketcham.
4th	"	Philip Roth, Sr., George S. Duryee.	12th	"	John J. Clancy, Arthur Zipf.
5th	"	James F. Connelly, James A. Christie.	13th	"	Thomas H. Hickey, John Theobald.
6th	"	John F. Ehlers, Roger Marshall.	14th	"	J. R. Van Valen, Geo. M. Ballard.
7th	"	Patrick Callan, M. McLaughlin.	15th	"	Henry R. Baker,[1] J. H. Van Houten,[2] Carl Baumann
8th	"	W. Van Steenberg, Richard A. Price.			

SAMUEL H. PEMBERTON, Clerk.

[1] Resigned July 7, 1887. [2] Elected October 11, 1887, to fill vacancy.

1888

MAYOR,

JOSEPH E. HAYNES.

COMMON COUNCIL,

CHARLES E. HILL, President.

1st Ward—L. E. Kane, E. F. McCormack.
2d " —Eugene Ufford, G. A. Lockwood.
3d " —F. M. Parker, Aug. Dusenberry.
4th " —Geo. S. Duryee, John Wegle,[1] W. R. Bennett.[2]
5th " —James A. Christie, Daniel M. Junk.
6th " —Roger Marshall, J. A. Dempsey.
7th " —M. McLaughlin, Jas. Fitzsimmons.
8th " —W. Van Steenberg, Richard A. Price.
9th Ward—Alex. H. Johnson, Elisha B. Gaddis.
10th " —James Marlatt, John F. Young.
11th " —G. W. Ketcham, Charles E. Hill.
12th " —Arthur Zipf, William Harrigan.
13th " —John Theobald, Robert Bonnett.
14th " —George M. Ballard, J. R. Van Valen,
15th " —Carl Baumann, J. H. Van Houten.

SAMUEL H. PEMBERTON, Clerk.

[1] Resigned September 21, 1888. [2] Elected to fill vacancy, December 18, 1888.

1889

MAYOR,

JOSEPH E. HAYNES.

COMMON COUNCIL,

CHARLES E. HILL, President.

1st Ward—E. F. McCormack, L. E. Kane.
2d " —G. A. Lockwood, John A. Blatt.
3d " —A. Dusenberry, F. M. Parker.
4th " —W. R. Bennett, J. P. Henderson.
5th " —Daniel M. Junk, Fred. Burgesser.
6th " —J. A. Dempsey, Roger Marshall.
7th " —J. Fitzsimmons, John F. Mahan.
8th " —Richard A. Price, W. Van Steenberg,[1] Elias G. Heller.[2]
9th Ward—Elisha B. Gaddis, Alex. H. Johnson.
10th " —John F. Young, Thomas C. Hunt.
11th " —Charles E. Hill, G. W. Ketcham.
12th " —Wm. Harrigan, Hugo J. Geissele.
13th " —Robert Bonnett, Peter Ulrich.
14th " —J. R. Van Valen, George Ballard.
15th " —J. H. Van Houten, D. F. Olvaney.

SAMUEL H. PEMBERTON, Clerk.

[1] Resigned September 6, 1889. [2] Elected to fill vacancy, October 8, 1889.

1890

MAYOR,
JOSEPH E. HAYNES.

COMMON COUNCIL,
GEORGE M. BALLARD, President.

1st Ward—L. E. Kane, E. F. McCormack.
2d " —John A. Blatt, G. A. Lockwood,
3d " —F. M. Parker, Aug. Dusenberry.
4th " —J. P. Henderson, H. G. Nadler.
5th " —Fred. Burgesser, James A. Christie.
6th " —Roger Marshall,[1] James A. Dempsey, J. H. Huegel.[2]
7th " —John F. Mahan, Jas. Fitzsimmons.
8th " —Elias G. Heller, Watson Ryno.
9th Ward—Alex. H. Johnson, Elisha B. Gaddis.
10th " —Thomas C. Hunt, John F. Young.
11th " —G. W. Ketcham, Andrew Radel.
12th " —Hugo J. Geissele, George Heinkel.
13th " —Peter Ulrich, Benedict Ulrich.
14th " —George M. Ballard, Frederick F. Bioren.
15th " —D. F. Olvaney, John R. Hardin.

SAMUEL H. PEMBERTON, Clerk.

[1] Resigned August 1, 1890. [2] Elected to fill vacancy, October 14, 1890.

1891

MAYOR,
JOSEPH E. HAYNES.

COMMON COUNCIL,
JAMES H. DEMPSEY. President.

1st Ward—E. F. McCormack, L. E. Kane.
2d " —G. A. Lockwood, Daniel Lynch.
3d " —A. Dusenberry, F. M. Parker.
4th " —H. G. Nadler, J. P. Henderson.
5th " —James A. Christie, Fred. Burgesser.
6th " —J. A. Dempsey, John H. Huegel.
7th " —J. Fitzsimmons, John F. Mahan,
8th " —Watson Ryno, Elias G. Heller.
9th Ward—Elisha B. Gaddis, Alex. H. Johnson.
10th " —John F. Young, George H. Larue.
11th " —Andrew Radel, John A. Furman.
12th " —George Heinkle, Wm. Harrigan.
13th " —Benedict Ulrich, Peter Ulrich.
14th " —Fred. F. Bioren, Wm. Stainsby.
15th " —John R. Hardin, D. F. Olvaney.

SAMUEL H. PEMBERTON, Clerk.

1892

MAYOR,

JOSEPH E. HAYNES.

COMMON COUNCIL,

JOHN F. MAHAN, President.

1st Ward—Lyman E. Kane, E. F. McCormack.
2d " —Daniel J. Lynch, Fred. E. Seiler.
3d " —A. Dusenberry, Frank M. Parker.
4th " —J. P. Henderson, Edward Goeller
5th " —Fred Burgesser, John H. Ely.
6th " —John H. Huegel, William Schaeffer.
7th " —J. Fitzsimmons, John F. Mahan.
8th " —Elias G. Heller, Watson Ryno.
9th Ward—James A. Arnold, Alex. H. Johnson.
10th " —George H. Larue, Terrance Smith.
11th " —John A. Furman, John Hausman.
12th " —Wm. Harrigan, Fred. J. Roehrich.
13th " —Peter Ulrich, F. A. Freiensehner.
14th " —Wm. Stainsby, Fred. F. Bioren.
15th " —Dennis E. Olvaney, Wm. Wagner.

WILLIAM E. O'CONNOR, Clerk.

1893

MAYOR,

JOSEPH E. HAYNES.

COMMON COUNCIL,

EDWARD GOELLER, President.

1st Ward—William Harrigan, F. J. Roehrich.
2d " —Terrance Smith, Charles S. Pell.
3d " —John H. Ely, Thomas Smith, Edward Goeller.[1]
4th " —J. Fitzsimmons, Ed. F. McCormack, Fred. E. Seiler, Francis M. Sweet.
5th " —Watson Ryno, George H. Wilson.
6th Ward—William Wagner, Theo Westerman.
7th " —John Housman, John J. Gaffney, William Schaeffer.
8th " —F. A. Freiensehner, V. C. Trabold.
9th " —Wm. Stainsby, A. Dusenberry, Fred. M. Bioren, James A. Arnold.[1]

WILLIAM E. O'CONNOR, Clerk.

[1] Died in office.

1894

MAYOR,

JULIUS A. LEBKUECHER.

COMMON COUNCIL,

JOHN H. ELY, President.

1st Ward—William Harrigan, F. J. Roehrich.
2d " —Charles J. Pell, Thos. W. Miller.
3d " —Thomas Smith, John H. Ely.
4th " —Francis M. Sweet,[1] David D. Bragaw.
5th " —George H. Wilson, Sydney N. Ogden.
6th Ward—Theo. Westerman, William J. Joyce.
7th " —John J. Gaffney, Thomas Cort.
8th " —V. C. Trabold, Joseph S. Ayres.
9th " —William Stainsby, A. Wildrick Swain.

WILLIAM E. O'CONNOR, Clerk.

[1] Died in office.

1895

MAYOR,

JULIUS A. LEBKUECHER.

COMMON COUNCIL,

DAVID D. BRAGAW, President.

1st Ward—David D. Bragaw, Edmund S. Joy.
2d " —A. Wildrick Swain, Louis M. Finger.
3d " —John Buhl, Jr., Abrah. Manners.
5th " —John H. Ely, F. J. Roehrich, James A. McCarthy.
6th " —Thomas Cort, William O. Kuebler.
7th " —William J. Joyce, Frank B. Knott.
8th Ward—Sydney N. Ogden, W. C. Garrison.
9th " —Joseph S. Ayres, George Virtue.
10th " —Thomas W. Miller, William J. Morrow.
11th " —Ed. W. Benjamin,
12th " —William Harrigan.
13th " —Jacob Schreihofer.
14th " —H. H. A. Schmidt,[1] Frank J. Gerhard,[2]
15th " —William Mungle.

LEWIS J. WENDELL, Clerk.

[1] Resigned October 18, 1895. [2] Appointed to fill vacancy, December 4, 1896.

1896

MAYOR,

JAMES M. SEYMOUR.

COMMON COUNCIL,

DAVID D. BRAGAW, President.

1st Ward—David D. Bragaw, Edmund S. Joy.
2d " —Louis M. Finger, Thomas B. Guerin.
3d " —John Buhl, Jr., Charles Jacobi.
4th " —Abrah. Manners, William S. Righter.
5th " —James A. McCarthy, Charles Weigand. Edw. M. Waldron.
6th " —W. O. Kuebler,
7th " —William J. Joyce, Frank B. Knott.
8th " —Sydney N. Ogden, Winton C. Garrison.
9th Ward—George Virtue, Sylv. D. Shepperd.
10th " —William J. Morrow, Minard A. Knapp.
11th " —Edw. W. Beniamin, Abram C. Denman.
12th " —William Harrigan, Herman Stahnten.
13th " —Jacob Schreihofer, Ferdinand J. Hosp.
14th " —John Bea, Val. C. Trabold.
15th " —William Mungle, Joseph S. Sutphen.

LEWIS J. WENDELL, Clerk.

1897

MAYOR,

JAMES M. SEYMOUR.

COMMON COUNCIL,

VALENTINE C. TRABOLD, President.

1st Ward—David D. Bragaw, James O. Smith.
2d " —W. B. Garrabrants, Theodore B. Guerin.
3d " —John Buhl, Jr., Charles Jacobi.
4th " —Thomas Smith, Wm. S. Righter.
5th " —James A. McCarthy, Charles Weigand.
6th " —Thos. F. Holzinger, Edward M. Waldron.
7th " —Wm. J. Joyce, William Dimond.
8th " —Sydney N. Ogden, Winton C Garrison.
9th Ward—J. Henry Bacheller, S. D. Shepperd.
10th " —Geo. W. LeGlise, Minard A. Knapp.
11th " —Adam M. Titus, Abram C. Denman.
12th " —Henry Croghan, Herman Stahnten.
13th " —Jacob Schreihofer, Ferdinand J. Hosp.
14th " —Fred. V. Ruland, V. C. Trabold.
15th " —James A. Rowe, J. S. Sutphen, M. D.

LEWIS J. WENDELL, Clerk.

1898

MAYOR,

JAMES M. SEYMOUR.

COMMON COUNCIL,

VALENTINE C. TRABOLD, President.

1st Ward—Henry J. Thein, James O. Smith.
2d " —W. B. Garrabrants, August A. Sippel.
3d " —John Buhl, Jr. John M. Stahl.
4th " —Thomas Smith, Wm. Glatzmayer.
5th " —James A. McCarthy, John H. Donnelly.
6th " —Thos. F. Holzinger, Edw. M. Waldron.
7th " —John J. Magovern, William Dimond.
8th " —Thomas A. Murphey, Winton C. Garrison.
9th Ward—J. Henry Bacheller, George Virtue.
10th " —George W. LeGlise, William B. Dunn.
11th " —John B. Wood, Adam M. Titus.
12th " —Henry Croghan, Geo. L. Rabenstein.
13th " —Jacob Schreihofer, Ferdinand J. Hosp.
14th " —Fred. V. Ruland, Val. C. Trabold.
15th " —James A. Rowe, George M. Titus.

LEWIS J. WENDELL, Clerk.

1899

MAYOR,

JAMES M. SEYMOUR.

COMMON COUNCIL,

EDWARD M. WALDRON, President.

1st Ward—Henry J. Thein, James O. Smith.
2d " —W. B. Garrabrants, August A. Sippel.
3d " —John Buhl, Jr., John M. Stahl.
4th " —Wm. Glatzmayer, Ernest N. Duryee.
5th " —John H. Donnelly, John F. Monohan.
6th " —Edw. M. Waldron, Oswald H. Roth.
7th " —John J. Magovern, John F. Sinnott.
8th " —Thomas A. Murphey, Herbert W. Taylor.
9th Ward—J. Henry Bacheller, George Virtue.
10th " —William B. Dunn, John F. Young.
11th " —John B. Wood, Thomas H. Tunison.
12th " —Geo. L. Rabenstein, John J. Quinn.
13th " —Ferdinand J. Hosp, Louis A. Felder.
14th " —Fred. V. Ruland, Val. C. Trabold.
15th " —George M. Titus, Joseph S. Sutphen.

JAMES F. CONNELLY, Clerk.

1900

MAYOR,

JAMES M. SEYMOUR.

COMMON COUNCIL,

JAMES O. SMITH, President.

1st Ward—Henry J. Thein, James O. Smith.
2d " —W. B. Garrabrants, Wm. Pennington.
3d " —John Buhl, Jr., John M. Stahl.
4th " —H. B. Holcolmb, Ernest N. Duryee.
5th " —John H. Donnelly, John F. Monohan.
6th " —E. E. McClintock, Oshwald H. Roth.
7th " —John C. Spear, John F. Sinnott.
8th " —Thomas A. Murphey, Herbert W. Taylor.
9th Ward—J. Henry Bacheller, Walton S. Howarth.
10th " —Elmer E. Horton, John F. Young.
11th " —John B. Wood, Thomas H. Tunison.
12th " —G. L. Rabenstein, John J. Quinn.
13th " —Frank J. Bock, Louis A. Felder.
14th " —Fred. V. Ruland, Fred. V. Baunach.
15th " —Watson Ryno, Joseph S. Sutphen.

JAMES F. CONNELLY, Clerk.

1901

MAYOR,

JAMES M. SEYMOUR.

COMMON COUNCIL,

JAMES O. SMITH, President.

1st Ward—Henry J. Thein, James O. Smith.
2d " —W. B. Garrabrants, Wm. Pennington.
3d " —John Buhl, Jr., John M. Stahl.
4th " —H. B. Holcomb, Ernest N. Duryee.
5th " —John H. Donnelly, John F. Monohan.
6th " —Ed. E. McClintock, Oshwald H. Roth.
7th " —John C. Spear, John F. Sinnott.
8th " —Thomas A. Murphey, Herbert W. Taylor.
9th Ward—J. Henry Bacheller, Walton S. Howarth.
10th " —Elmer E. Horton, John F. Young.
11th " —John B. Wood, Thomas H. Tunison.
12th " —G. L. Rabenstein, John J. Quinn.
13th " —Frank J. Bock, Louis A. Felder.
14th " —Fred. V. Ruland, Fred. V. Baunach.
15th " —Watson Ryno, Joseph S. Sutphen.

JAMES F. CONNELLY, Clerk.

1902

MAYOR,
JAMES M. SEYMOUR.

COMMON COUNCIL,
JOHN B. WOOD, President.

1st Ward—Henry J. Thein, Arthur Haslam.
2d " —Wm. Pennington, Frederick W. Kroeger,
3d " —John Foster, John M. Stahl.
4th " —Horace B. Holcomb, Wm. R. Bennett.
5th " —Harry C. Dodd, John H. Donnelly.
6th " —Ed. E. McClintock, Henry B. Snyder.
7th " —Abraham Kaiser, John C. Spear.
8th " —Thomas A. Murphey, Herbert W. Taylor.
9th Ward—J. Henry Bacheller, Walton S. Howarth.
10th " —Elmer E. Horton, John F. Young.
11th " —John B. Wood, William P. Martin.
12th " —G. L. Rabenstein, John J. Quinn.
13th " —Frank J. Bock, Arthur J. Mousley.
14th " —Henry Schreitmueller, Fred. V. Baunach.
15th " —Joseph S. Sutphen, Watson Ryno.

JAMES F. CONNELLY, Clerk.

1903

MAYOR,
HENRY M. DOREMUS.

COMMON COUNCIL,
J. HENRY BACHELLER, President.

1st Ward—Henry J. Thein, Arthur Haslam.
2d " —Wm. Pennington, Frederick W. Kroeger.
3d " —C. Frederick Knothe, John Foster,[1]
4th " —Wm. R. Bennett, Wm. C. Fischer.
5th " —Harry C. Dodd, Patrick H. Ryan.
6th " —Ed. E. McClintock, Henry B. Snyder.
7th " —Abraham Kaiser, Thos. J. McLaughlin.
8th " —Thos. A. Murphey,[2] Herbert W. Taylor.
9th Ward—J. Henry Bacheller, Walton S. Howarth.
10th " —Elmer E. Horton,[3] John F. Young.
11th " —John B. Wood, William P. Martin.
12th " —John J. Quinn, Anton Steines.
13th " —Frank J. Bock, Arthur J. Mousley.
14th " —Henry Schreitmueller, Henry Augustin.
15th " —Joseph S. Sutphen, Watson Ryno.

JAMES F. CONNELLY, Clerk.

[1] Resigned April 3, 1903. Vacancy balance of year. [2] Resigned March 6, 1903. Vacancy balance of year. [3] Resigned April 3, 1903. Vacancy balance of year.

1904

MAYOR,

HENRY M. DOREMUS.

COMMON COUNCIL,

HENRY J. THEIN, President.

1st Ward—Henry J. Thein, Arthur Haslam.
2d " —Wm. Pennington, Frederick W. Kroeger.
3d " —C. Fred'k Knothe,[1] Emil Wohlfarth.
4th " —Wm. C. Fischer, Wm. R. Bennett.
5th " —Patrick H. Ryan, Patrick J. Caufield.
6th " —Ed. E. McClintock, Henry B. Snyder.
7th " —Thos. J. McLaughlin, John F. Sinnott.
8th " —John A. Estelle, Curtis R. Burnett.
9th Ward—Walton S. Howarth, Wm. B. Woodland.
10th " —Frank P. Laughlin, Gustav Freund.
11th " —John B. Wood, Wm. P. Martin.
Anton Steines.
Patrick H. Corish.
13th " —Frank J. Bock, Arthur J. Mousley.
14th " —Henry Schreitmueller, Henry Augustin.
15th " —Watson Ryno, Andrew Harper.

JAMES F. CONNELLY, Clerk.

[1] Died February 16, 1904. Vacancy balance of year.

1905

MAYOR,

HENRY M. DOREMUS.

COMMON COUNCIL,

HENRY J. THEIN, President.

1st Ward—Henry J. Thein, Arthur Haslam.
2d " —Wm. Pennington, Frederick W. Kroeger.
3d " —Emil Wohlfarth, Victor E. Struck.
4th " —Wm. C. Fischer, Wm. R. Bennett.
5th " —Patrick J. Caufield, Samuel Scull.
6th " —Ed. E. McClintock, Henry B. Snyer.
7th " —Thos. J. McLaughlin, John F. Sinnott.
8th " —John A. Estelle, Curtis R. Burnett.
9th Ward—Walton S. Howarth, Wm. B. Woodland.
10th " —Frank P. Laughlin, Gustav Freund.
11th " —John B. Wood, Wm. P. Martin.
12th " —Patrick J. Corish, Anton Reitz.
13th " —Arthur J. Mousley, Frank Lagay.
14th " —Henry Schreitmueller, Henry Augustin.
15th " —Andrew Harper, Samuel Epstein.

JAMES F. CONNELLY, Clerk.

1906

MAYOR,

HENRY M. DOREMUS.

COMMON COUNCIL,

WALTON S. HOWARTH, President.

1st Ward—Henry J. Thein, Arthur Haslan.
2d " —Wm. Pennington, William Lee.
3d " —Emil Wohlfarth, Victor F. Struck.
4th " —Wm. R. Bennett, Alfred N. Dalrymple.
5th " —Samuel Scull, Patrick H. Ryan.
6th " —Ed. E. McClintock, Henry B. Snyder.
7th " —Thos. J. McLaughlin, John F. Sinnott.
8th " —John A. Estelle, Curtis R. Burnett.
9th Ward—Walton S. Howarth, Charles Kunze.
10th " —Frank P. Laughlin, Gustav Freund.
11th " —William P. Martin, Jerome T. Congleton.
12th " —Patrick H. Corish, Anton Reitz.
13th " —Arthur J. Mousley, Frank Lagay.
14th " —Henry Schreitmueller, Henry Augustin.
15th " —Samuel Epstein, Lorenzo Boscaino.

JAMES F. CONNELLY, Clerk.

1907

MAYOR,

JACOB HAUSSLING.

COMMON COUNCIL,

JOHN F. SINNOTT, President.

1st Ward—Oliver M. Cairns, Joseph A. Wright.
2d " —William Lee, Michael Leveen.
3d " —Emil Wohlfarth, Joseph Froelich.
4th " —Wm. R. Bennett, Michael F. Mullen.
5th " —Patrick H. Ryan, M. J. McGowan, Jr.
6th " —Henry B. Snyder, Fred. J. Fisher.
7th " —John F. Sinnott, Adolph Holzner.
8th " —John A. Estelle, Curtis R. Burnett.[1]
9th Ward—Charles Kunze, Eugene C. Meyer.
10th " —Frank P. Laughlin, William P. Reilly.
11th " —William P. Martin, George W. Frey.
12th " —Patrick H. Corish, A. H. Biertuempfel.
13th " —Arthur J. Mousley, Julius A. Meyer.
14th " —Henry Schreitmueller, James A. Bray.
15th " —Lorenzo Boscaino, John S. Mann.

JAMES F. CONNELLY, Clerk.

[1] Resigned August 2, 1907. Vacancy balance of year.

1908

MAYOR,

JACOB HAUSSLING.

COMMON COUNCIL,

PATRICK H. RYAN, President.

1st	Ward	—Oliver M. Cairns, Joseph A. Wright.	9th	Ward	—Eugene C. Meyer, C.Wurtemberg Smith
2d	"	—Michael Leveen, Elmer A. Day.	10th	"	—William J. Reilly, Charles H. Gaffeney.
3d	"	—Joseph C. Frolich, Louis Semel.	11th	"	—George W. Frey, Jerome T. Congleton.
4th	"	—Michael F. Mullen, Shepard M. Mills.	12th	"	—A. H. Biertuempfel, Patrick J. Dolan.
5th	"	—Patrick H. Ryan, M. J. McGowan, Jr.	13th	"	—Julius A. Meyer, William Eisner.
6th	"	—Fred J. Fischer, Seth B. Smith,	14th	"	—James A. Bray, A. G. Kroehl, Jr.
7th	"	—John F. Sinnott, Adolph Holzner.	15th	"	—John S. Mann, Joseph Schmitt, Jr.
8th	"	—Charles L. Whitfield, Daniel Hopper.	16th	"	—August J. Ehrlich, William K. Secker.

JAMES F. CONNELLY, Clerk.

1909

MAYOR,

JACOB HAUSSLING.

COMMON COUNCIL,

WILLIAM PENNINGTON, President.

1st	Ward	—Oliver M. Cairns, Joseph A. Wright.	9th	Ward	—Charles W. Baum, W. Frank Hopping.
2d	"	—Elmer A. Day, William Pennington.	10th	"	—Chas. H. Gaffeney, Louis C. Vossmeyer.
3d	"	—Louis Semel, Emil Wohlfarth.	11th	"	—Jerome T. Congleton, George W. Taylor.
4th	"	—Shepard M. Mills, Elmer E. Mount.	12th	"	—A. H. Biertuempfel, Patrick J. Dolan.
5th	"	—Patrick H. Ryan, M. J. McGowan, Jr.	13th	"	—William Eisner, J. William Huegel.
6th	"	—Fred. J. Fischer, Seth B. Smith.	14th	"	—James A. Bray, A. G. Kroehl, Jr.
7th	"	—John F. Sinnott, C. J. Harrington.	15th	"	—Joseph Schmitt, Jr. James Snape.
8th	"	—Charles J. Whitfield, Daniel Hopper.	16th	"	—William K. Secker, Chas. L. Ingraham.

JAMES F. CONNELLY, Clerk.

1910

MAYOR,

JACOB HAUSSLING.

COMMON COUNCIL,

WILLIAM PENNINTON, President.

1st Ward	—Oliver M. Cairns, Horace C. Grice.		9th Ward	—Charles W. Baum, W. Frank Hopping.	
2d	—Elmer A. Day, William Pennington.		10th	—Louis Pfeifer, Louis C. Vossmeyer.	
3d	—Louis Semel, Emil Wohlfarth.		11th	—Jerome T. Congleton, George W. Taylor.	
4th	—Louis Schwartz, Elmer E. Mount.		12th	—A. H. Biertuempfel, John F. Fitzsimmons	
5th	—John H. Donnelly, M. J. McGowan, Jr.		13th	—Francis J. Reynolds, J. William Huegel.	
6th	—Fred. J. Fischer, Seth B. Smith.		14th	—James A. Bray, A. G. Kroehl, Jr.	
7th	—Philip A. McGuire, C. J. Harrington.		15th	—Joseph Schmitt, Jr. James Snape.	
8th	—Chas. L. Whitfield, Daniel Hopper.		16th	—William K. Secker, Chas. L. Ingraham.	

JAMES F. CONNELLY, Clerk.

1911

MAYOR,

JACOB HAUSSLING.

COMMON COUNCIL,

JOHN H. DONNELLY, President.

1st Ward	—Wm. D. Elliott, Horace C. Grice.		9th Ward	—Charles W. Baum, W. Frank Hopping.	
2d	—Elmer A. Day, Frank Diener.		10th	—Patrick C. O'Brien, Louis Pfeifer.	
3d	—Louis Semel, Herman Scheininger.		11th	—Jerome T. Congleton, George W. Taylor.	
4th	—Alexander Archibald, Louis Schwartz.		12th	—A. H. Biertuempfel, John F. Fitzsimmons.	
5th	—J. Francis Hanlon, John H. Donnelly.		13th	—John F. Reilly, Francis J. Reynolds.	
6th	—Fred. J. Fischer, Seth B. Smith.		14th	—Anthony Schuck, A. G. Kroehl, Jr.	
7th	—C. J. Harrington, Philip A. McGuire.		15th	—Joseph Schmitt, Jr., Angelo R. Bianchi.	
8th	—Chas. L. Whitfield, Daniel Hopper.		16th	—John M. Judge, Chas. L. Ingraham.	

JAMES F. CONNELLY, Clerk.

1912

MAYOR,

JACOB HAUSSLING.

COMMON COUNCIL,

JOHN H. DONNELLY, President.

1st	Ward	—Mark F. Phillips.	9th	Ward	—W. Frank Hopping Charles H. Walker.
2d	"	—Frank Diener, Edward C. Eaton.	10th	"	—Louis Pfeifer, Patrick C. O'Brien
3d	"	—Herman Scheininger, Louis Reich.	11th	"	—George W Taylor, George V. Tucker.
4th	"	—Alexander Archibald, Robert E. Ducey.	12th	"	—A. H. Biertuempfel, John J. Fitzsimmons.
5th	"	—John H. Donnelly, J. Francis Hanlon.	13th	"	—John F. Reilly, Maurice H. Welsh.
6th	"	—Frederick J. Fischer, Thomas J. Lee, Jr.	14th	"	—A. G. Kroehl, Jr., Anthony Schuck.
7th	"	—C. J. Harrington, John J. McGovern.	15th	"	—Angelo R. Bianchi, Edward J. Quigley.
8th	"	—Daniel Hopper, Charles L. Whitfield.	16th	"	—John M. Judge, Chas. W. Littlefield.

JAMES F. CONNELLY, Clerk.

1913

MAYOR,

JACOB HAUSSLING.

COMMON COUNCIL,

JOHN H. DONNELLY, President.

1st	Ward	—Mark F. Phillips, Angelo R. Bianchi.	9th	Ward	—W. Frank Hopping, Frank W. Cann.
2d	"	—Frank Diener, Edward C. Eaton.	10th	"	—Patrick C. O'Brien, Louis Pfeifer.
3d	"	—Herman Scheininger, Louis Reich.	11th	"	—George W. Taylor, George V. Tucker.
4th	"	—Robert E. Ducey, James P. Rogers.	12th	"	—John F. Fitzsimmons, Charles A. Glutting.
5th	"	—J. Francis Hanlon, John H. Donnelly.	13th	"	—John F. Reilly, Maurice H. Welsh.
6th	"	—Thomas J. Lee, Jr. Avitus J. Dougherty.	14th	"	—Anthony Schuck, A. G. Kroehl, Jr.
7th	"	—C. J. Harrington, John J. McGovern.	15th	"	—Edward J. Quigley, John J. Walsh.
8th	"	—Daniel Hopper, E. Garfield Gifford.	16th	"	—Chas. W. Littlefield, William D. Bleick.

JAMES F. CONNELLY, Clerk.

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